

Fig. 1A

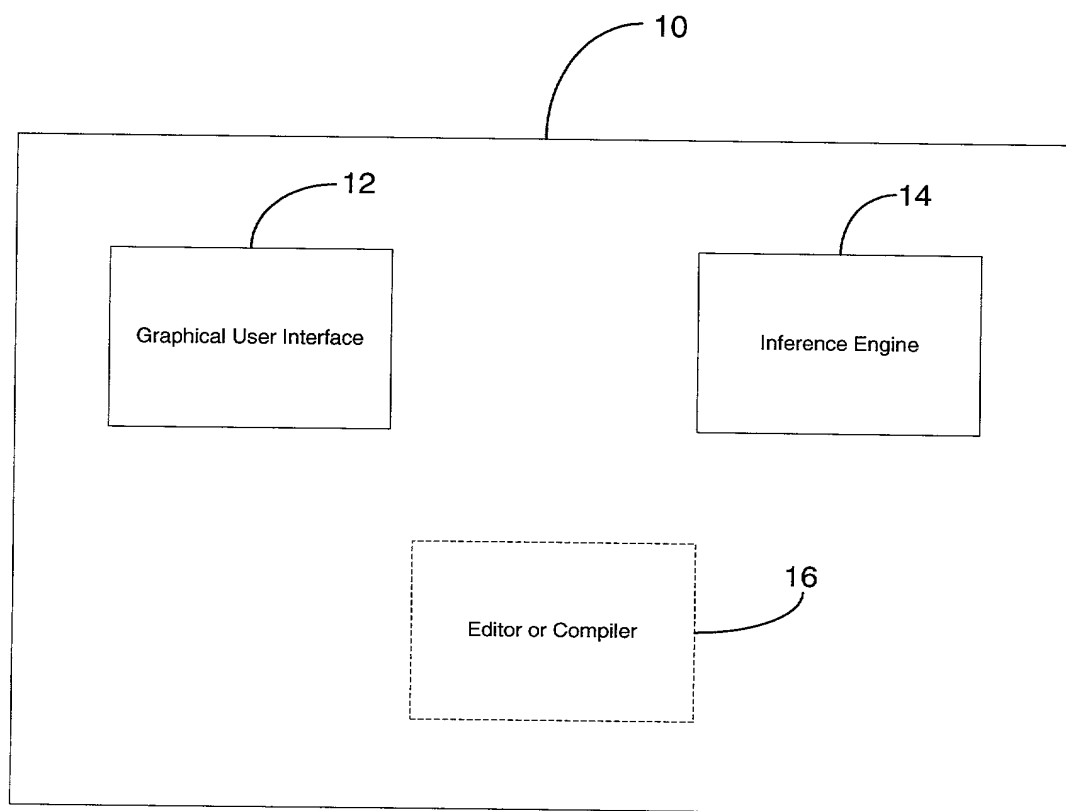
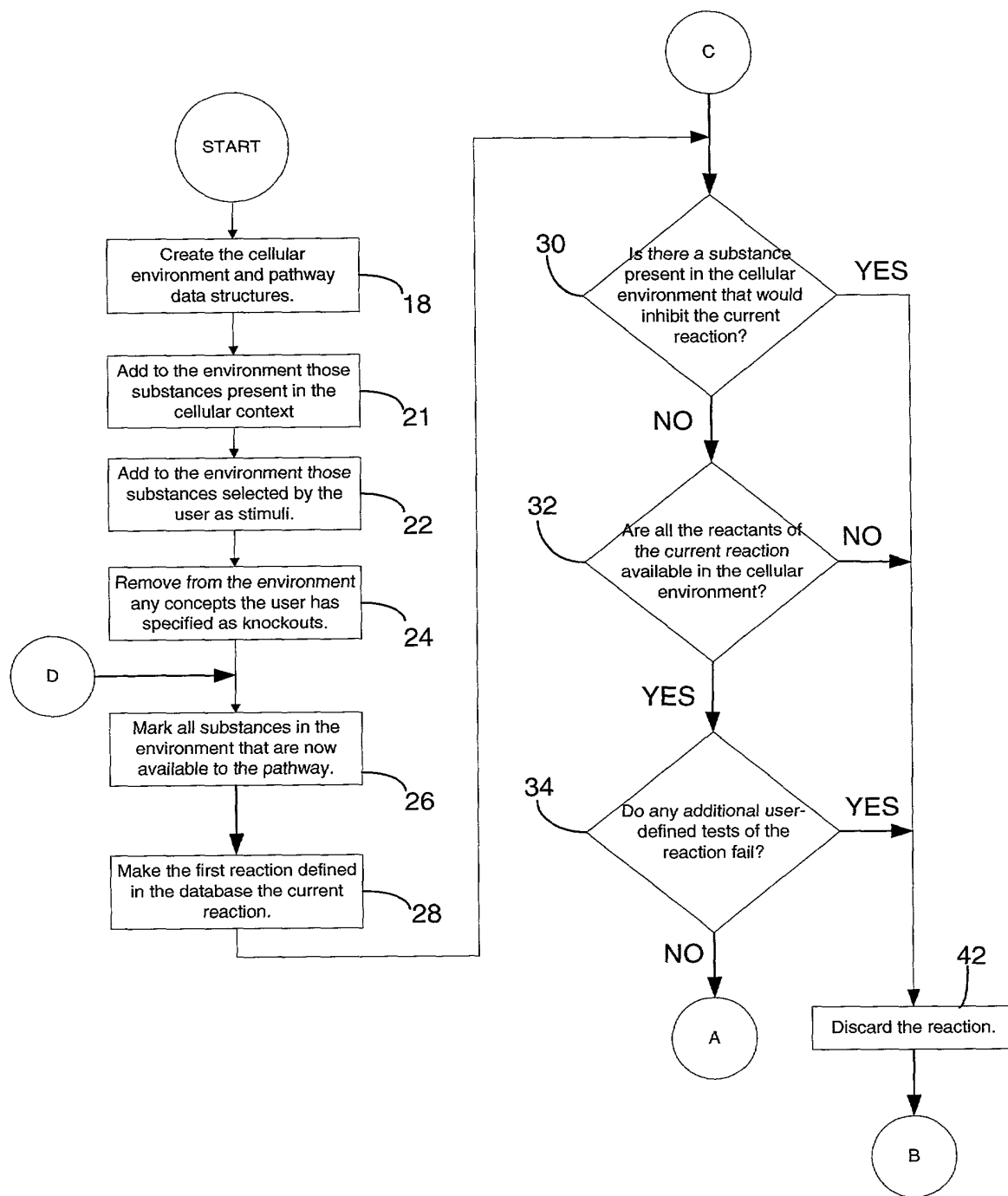


Fig. 1B

Fig. 2A



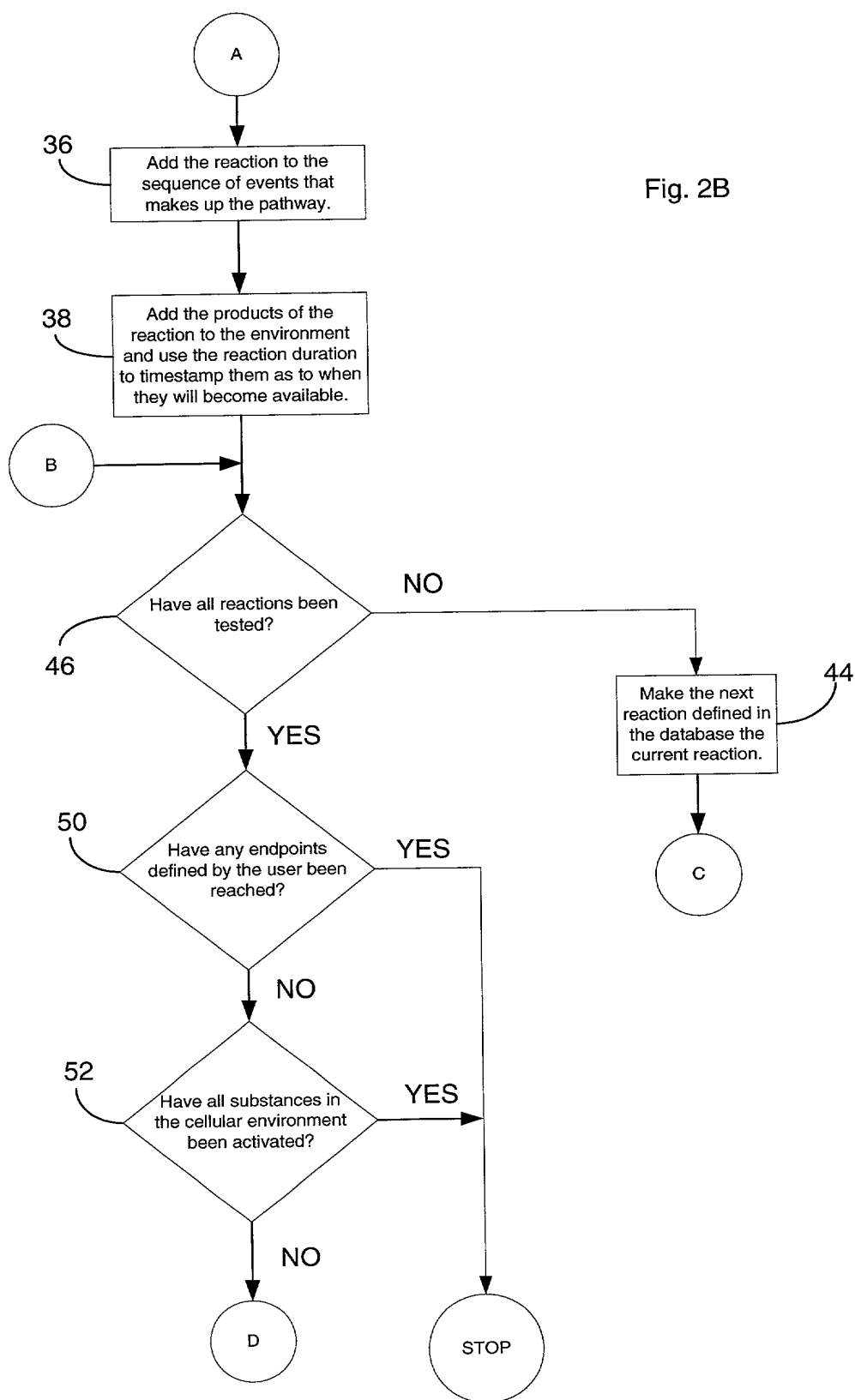


Fig. 2B

Fig. 2C

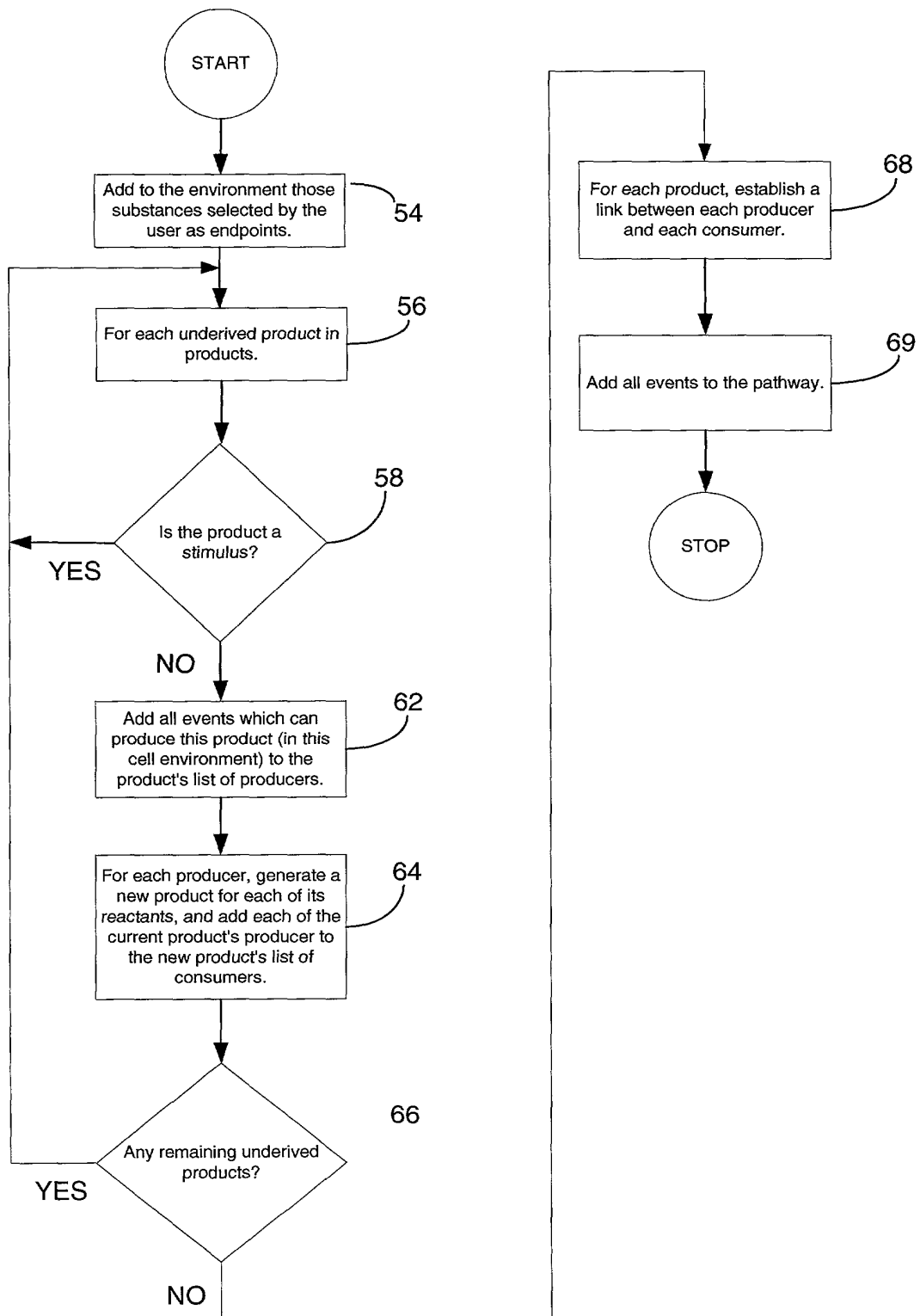


FIGURE 3

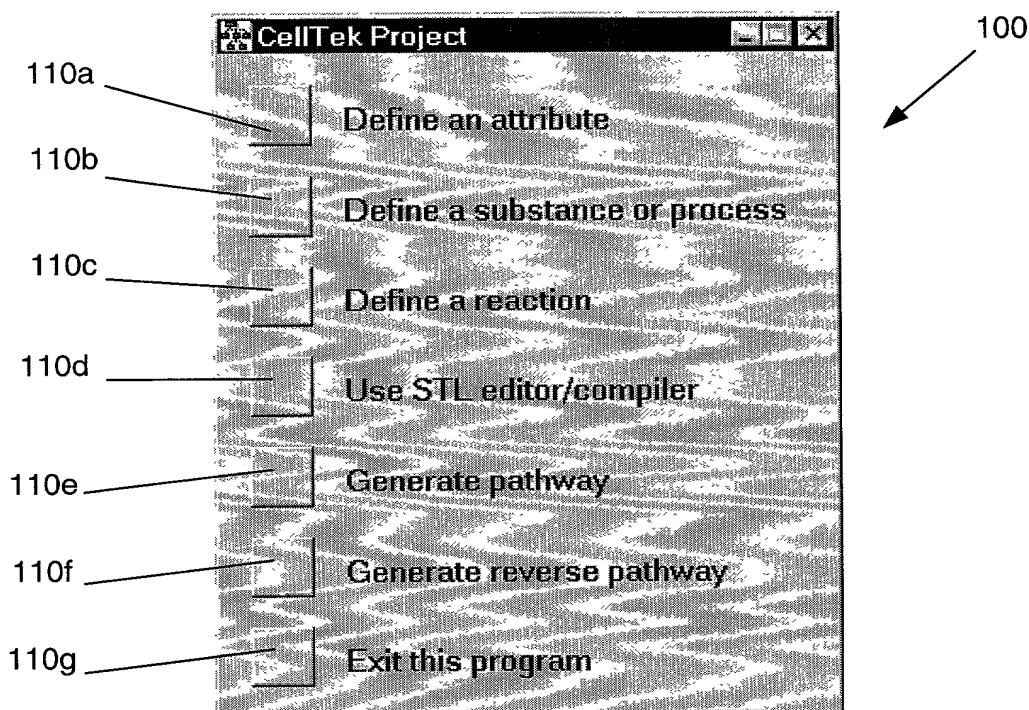


FIGURE 4A

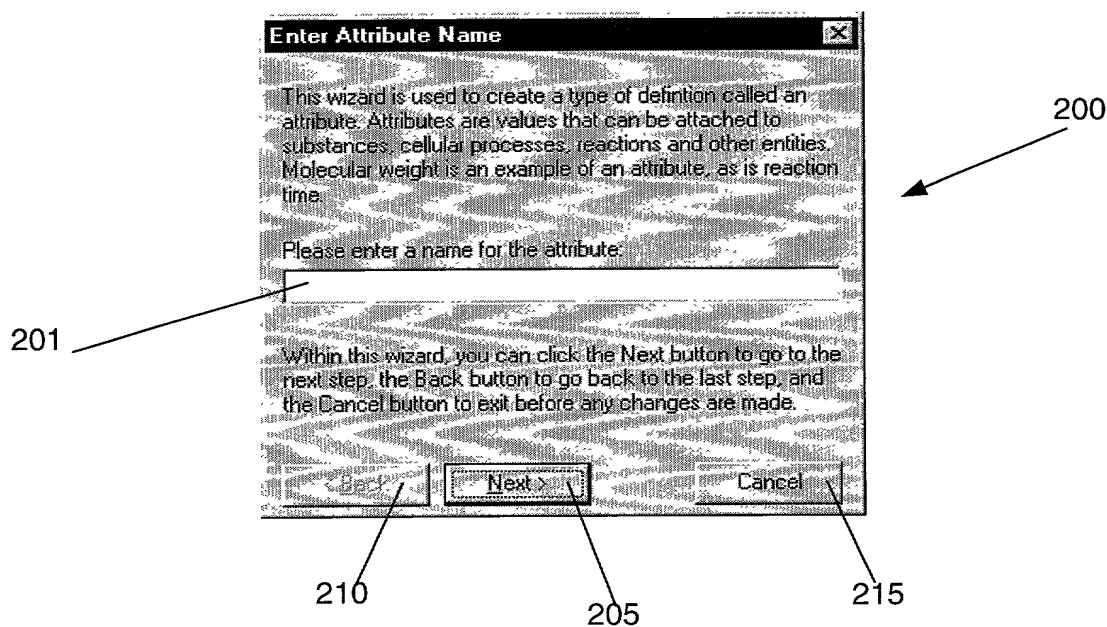


FIGURE 4B

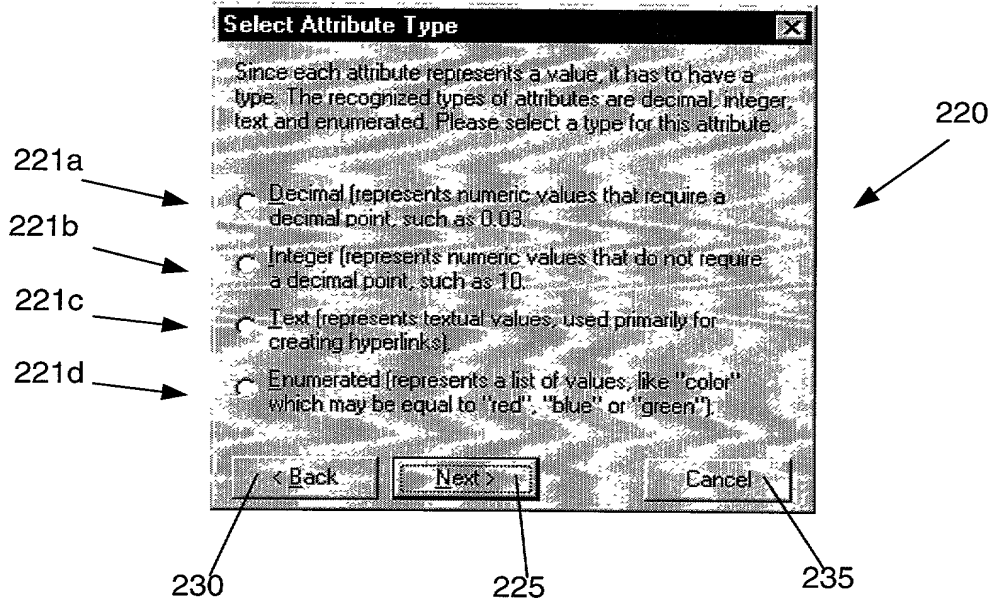


FIGURE 4C

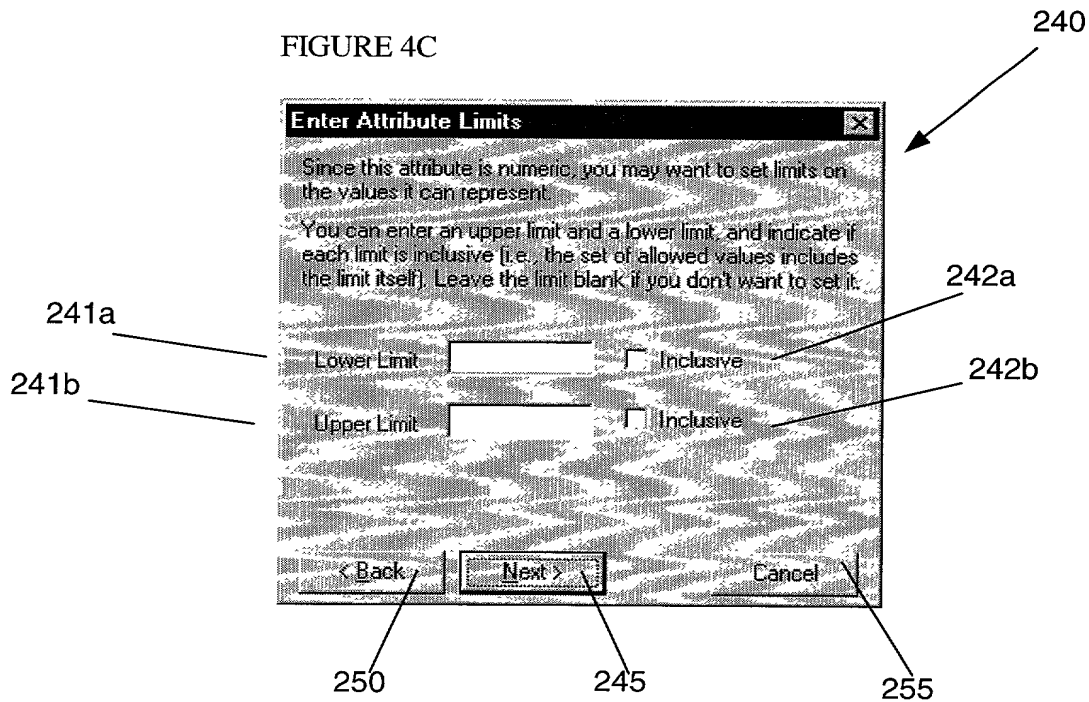


FIGURE 4D

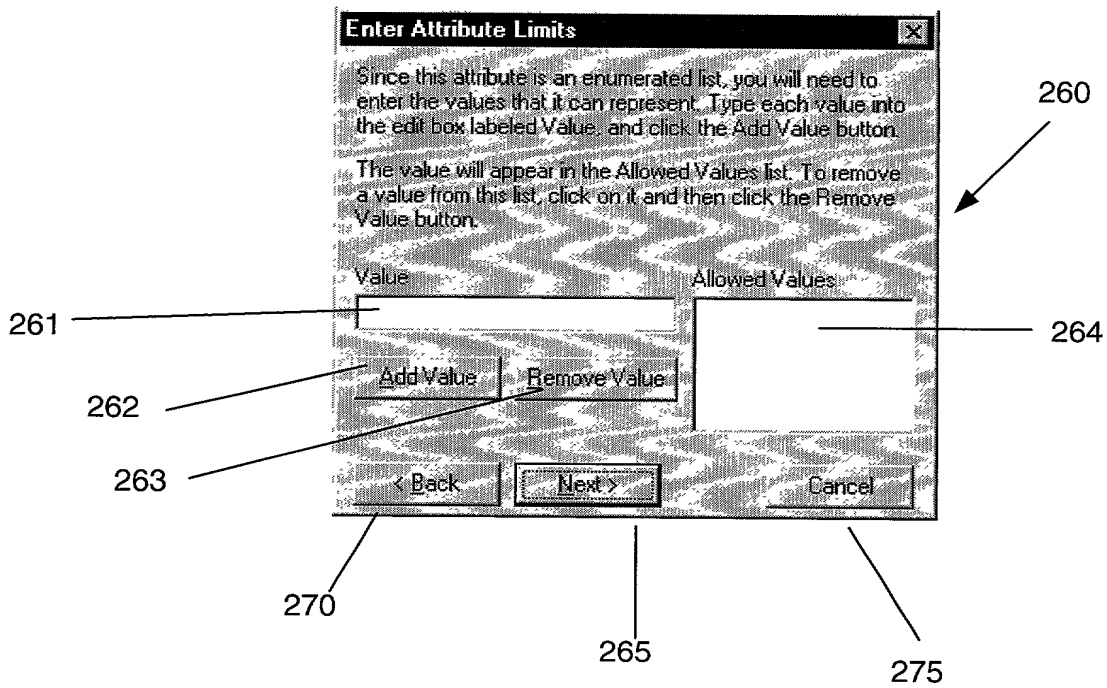


FIGURE 4E

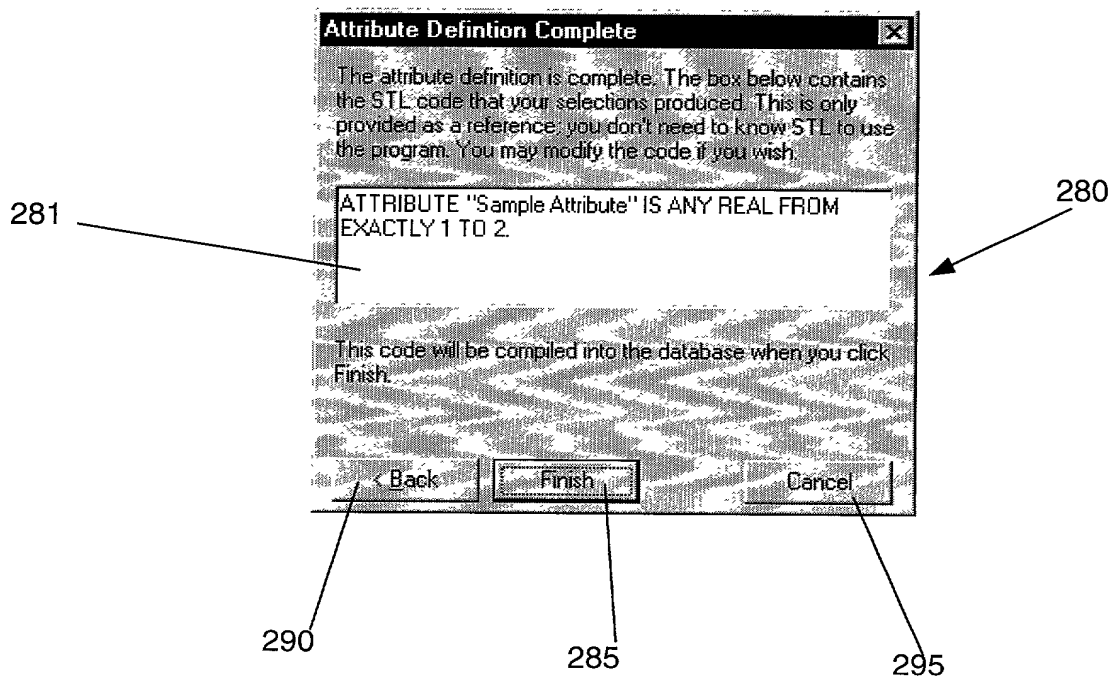


FIGURE 5A

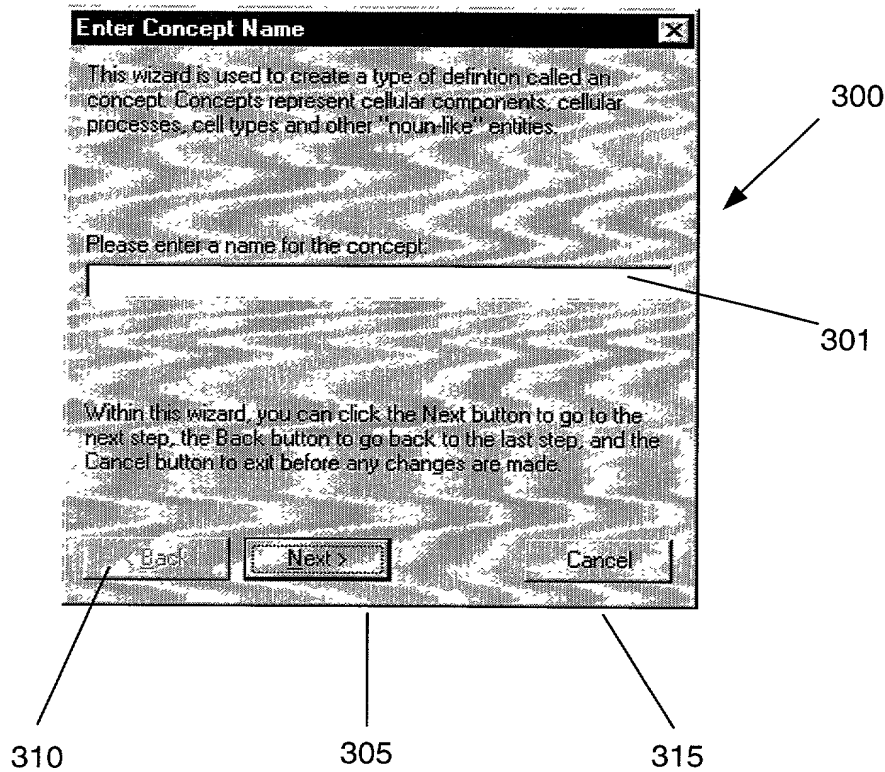


FIGURE 5B

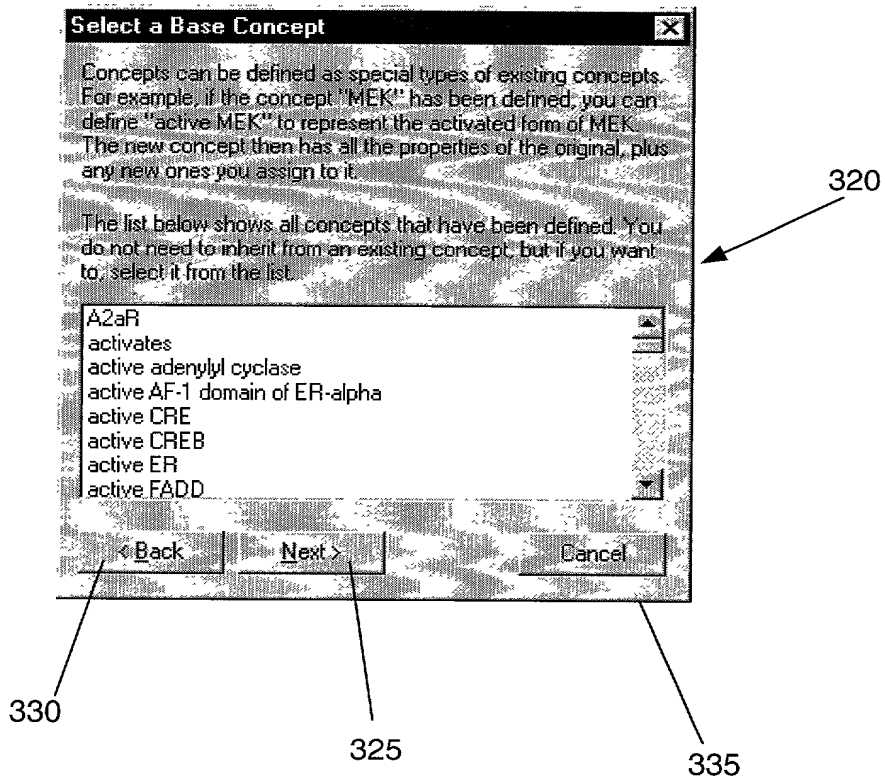


FIGURE 5C

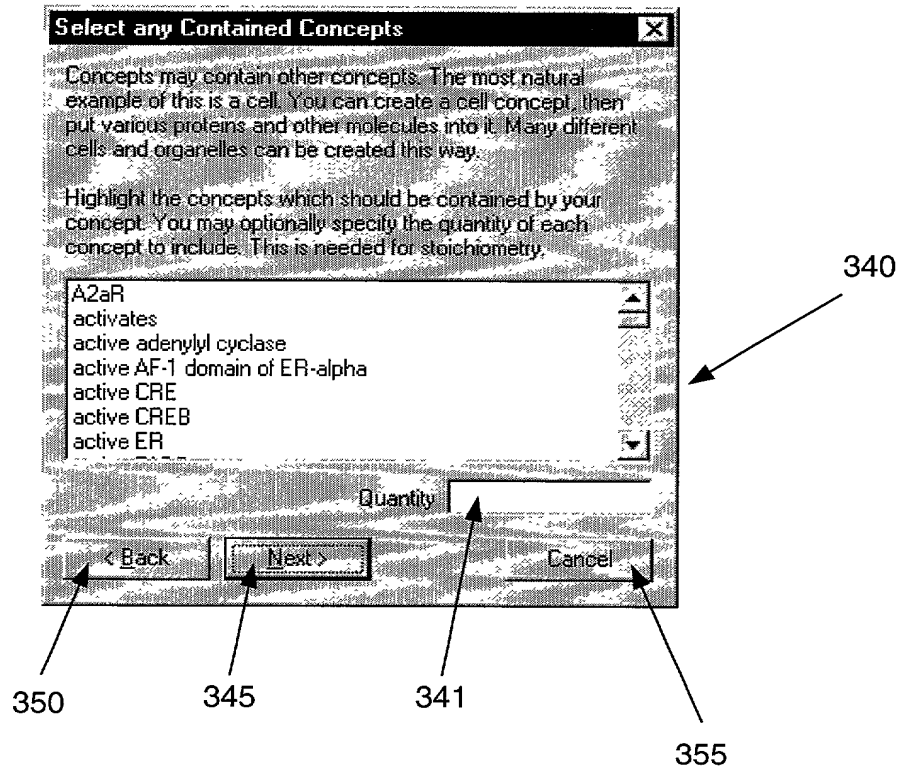


FIGURE 5D

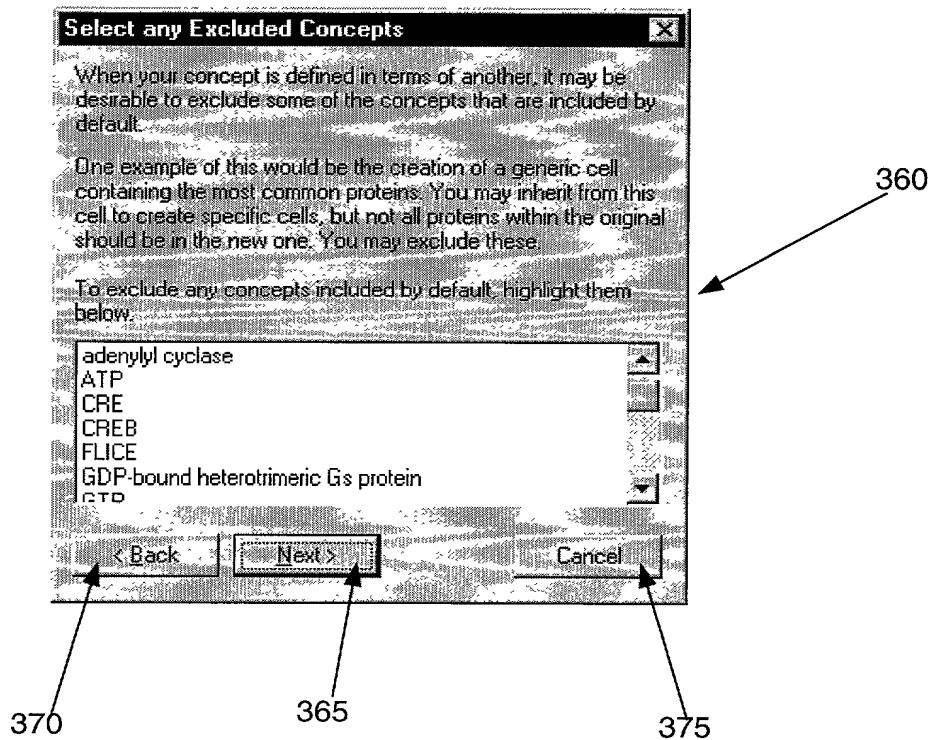


FIGURE 5E

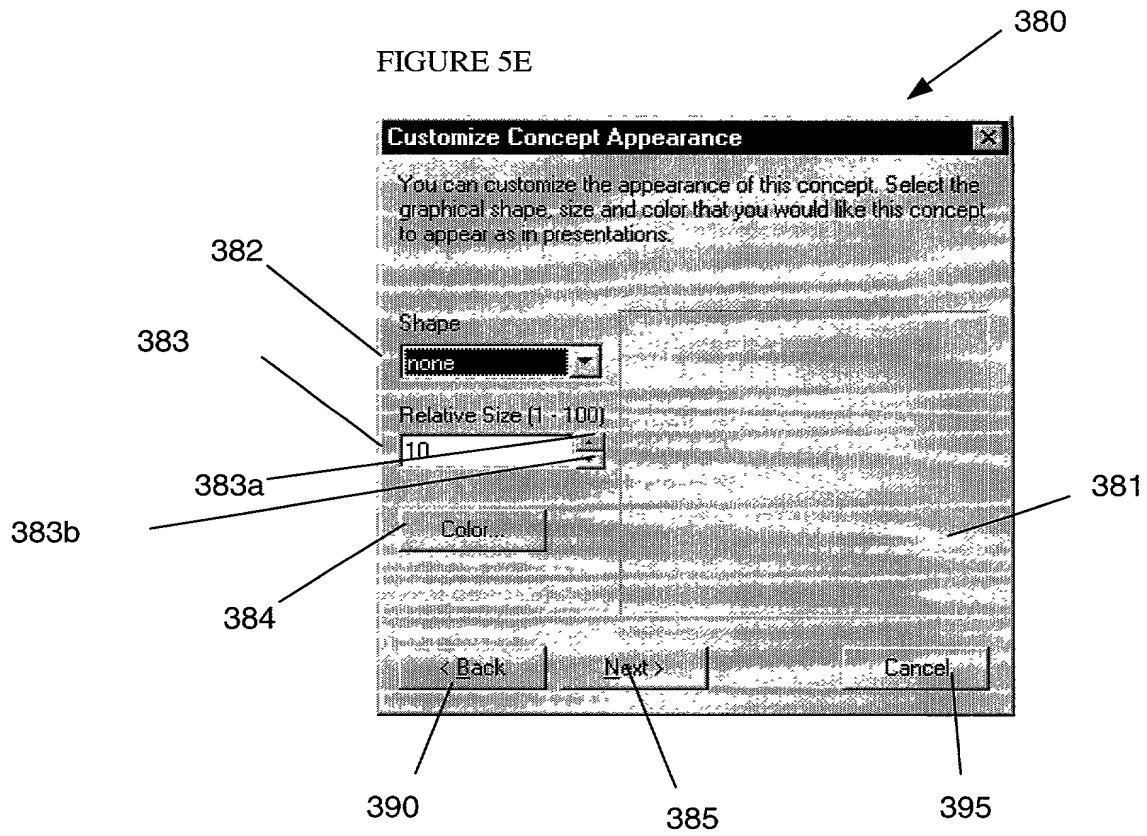


FIGURE 5F

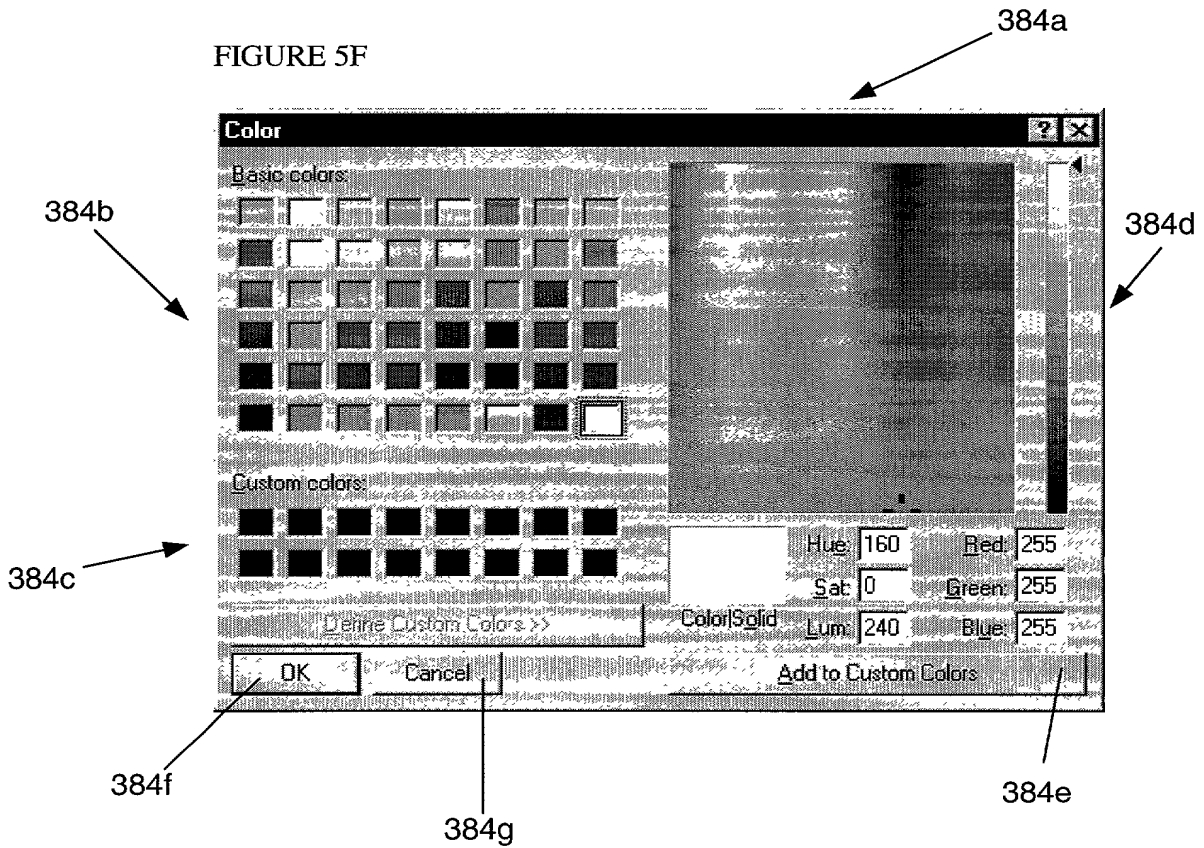


FIGURE 5G

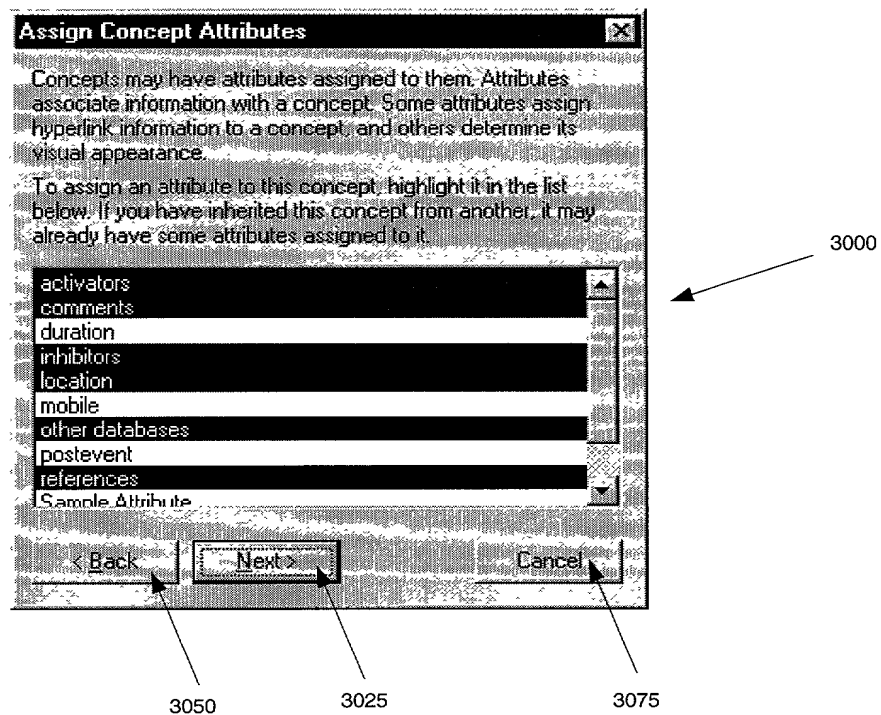


FIGURE 5H

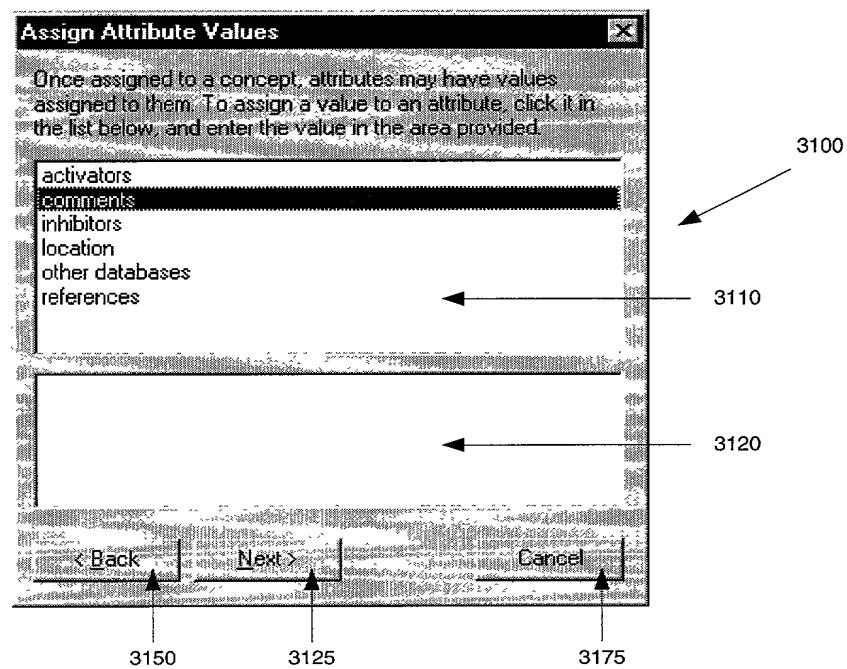


FIGURE 5I

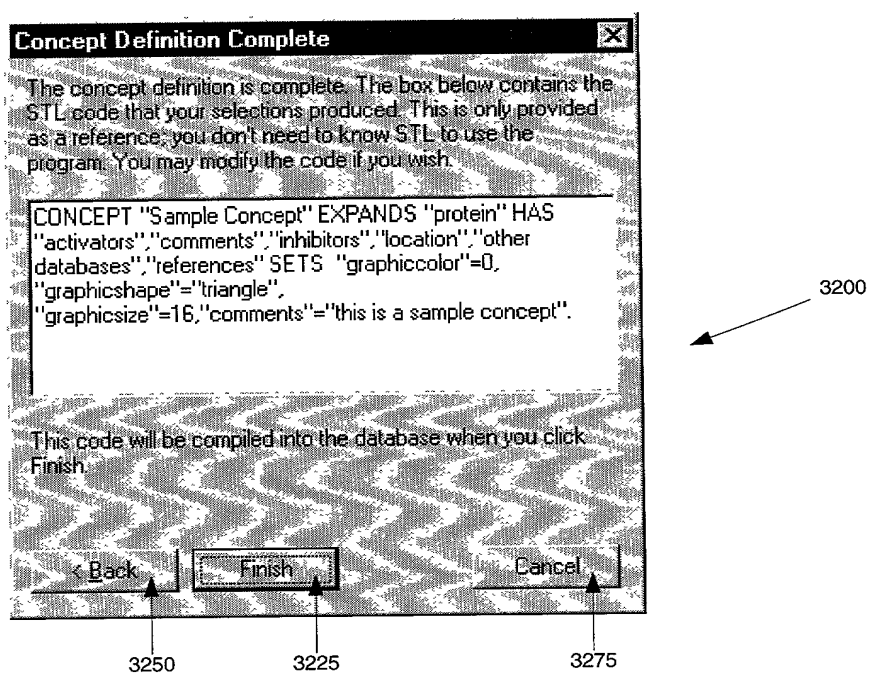


FIGURE 6A

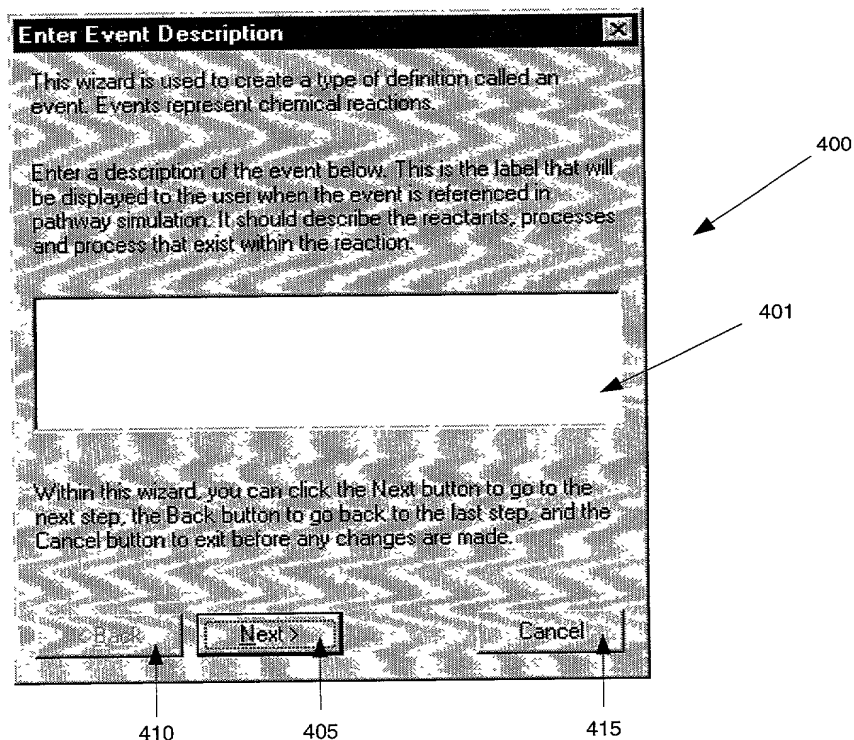


FIGURE 6B

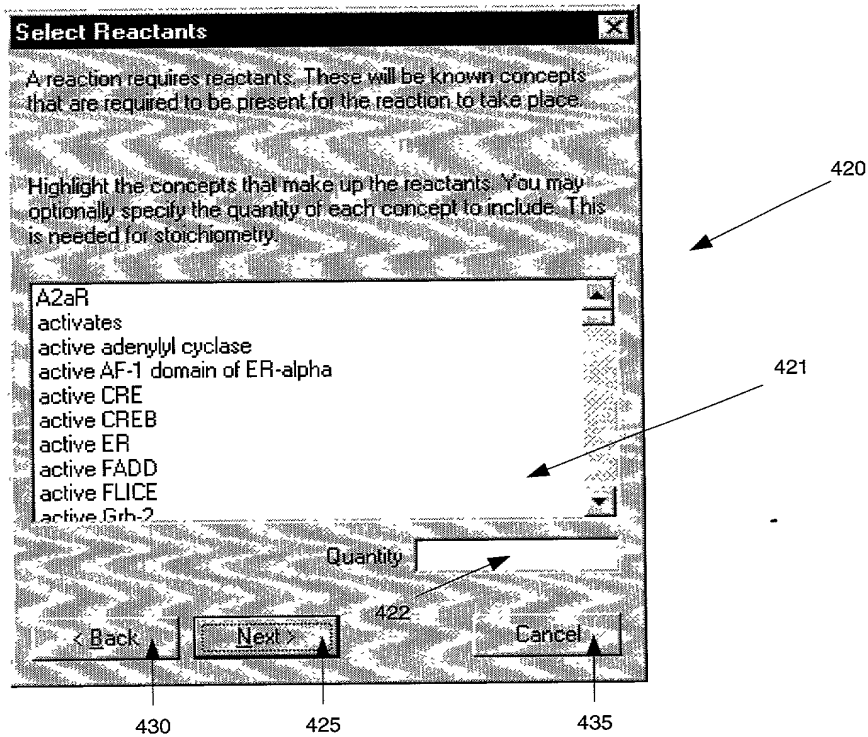


FIGURE 6C

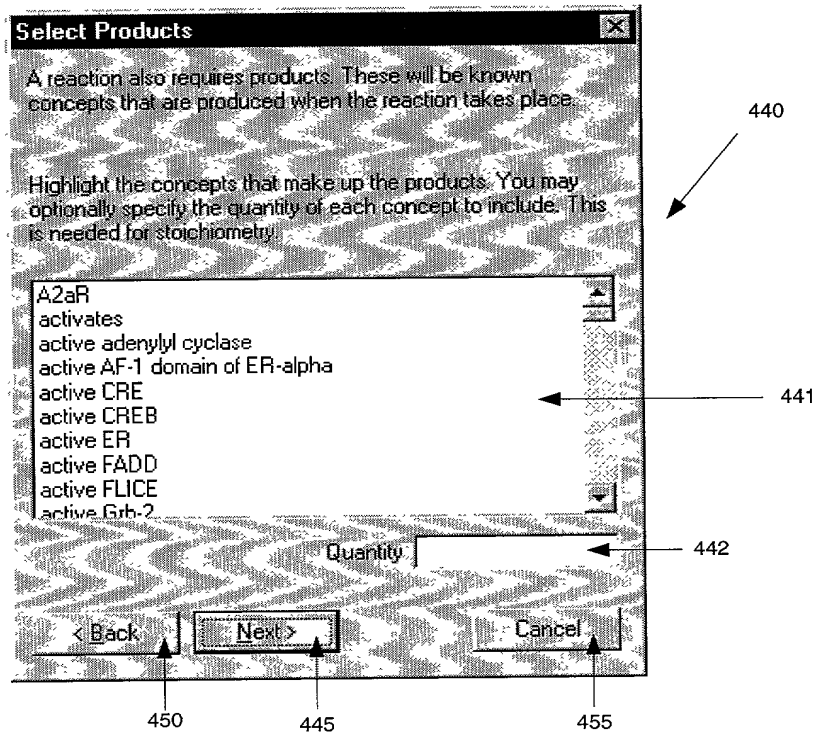


FIGURE 6D

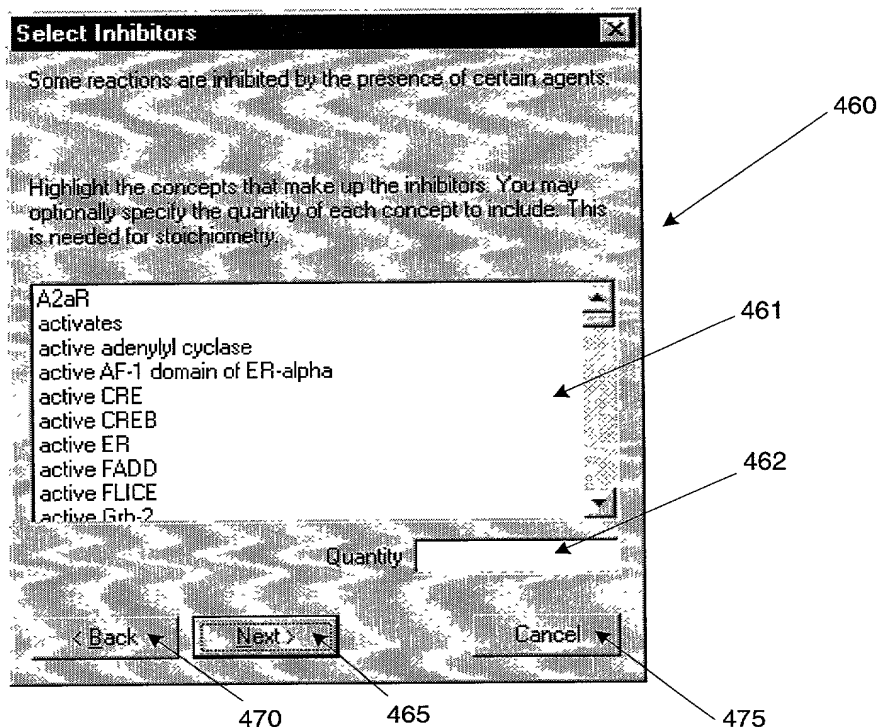


FIGURE 6E

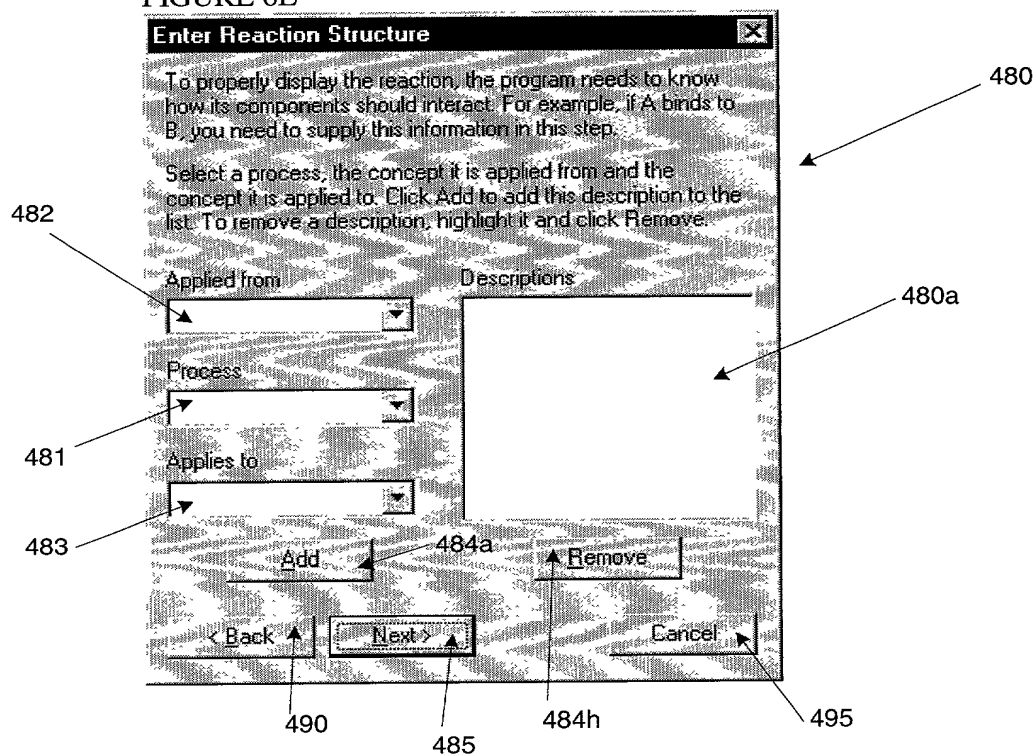


FIGURE 6F

Enter Event Attributes

Events have certain attributes assigned to them that associate information with them. In the space below, enter the values of any relevant attributes for this event.

Event Duration seconds

To provide the best dynamic representation of a reaction, information about the mobility and post-reaction presence of the reactants is needed. Select each reactant in the list below, and check the relevant boxes.

Reactant	Reactant will move during the reaction towards other reactants	Reactant is unchanged by the reaction and should be visible post-reaction
A2aR	<input type="checkbox"/>	<input type="checkbox"/>
adenosine	<input type="checkbox"/>	<input type="checkbox"/>

< Back Next > Cancel

FIGURE 6G

Enter Event Contexts

Some reactions may be present or absent for certain cell types. Highlight the cell types for which this reaction is present. If you do not select any, it will be present for all cell types.

breast cancer cell
generic cell
generic cell with FADD
HEK-293 cell

Highlight the cell types for which this reaction is absent. If you do not select any, it will be present for all cell types.

breast cancer cell
generic cell
generic cell with FADD
HEK-293 cell

< Back Next > Cancel

FIGURE 6H

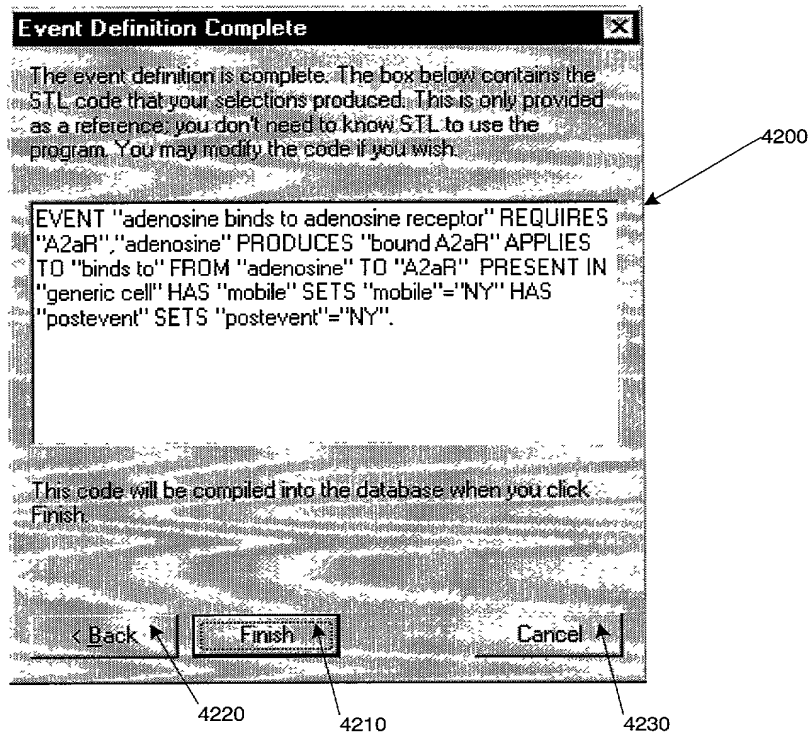


FIGURE 7

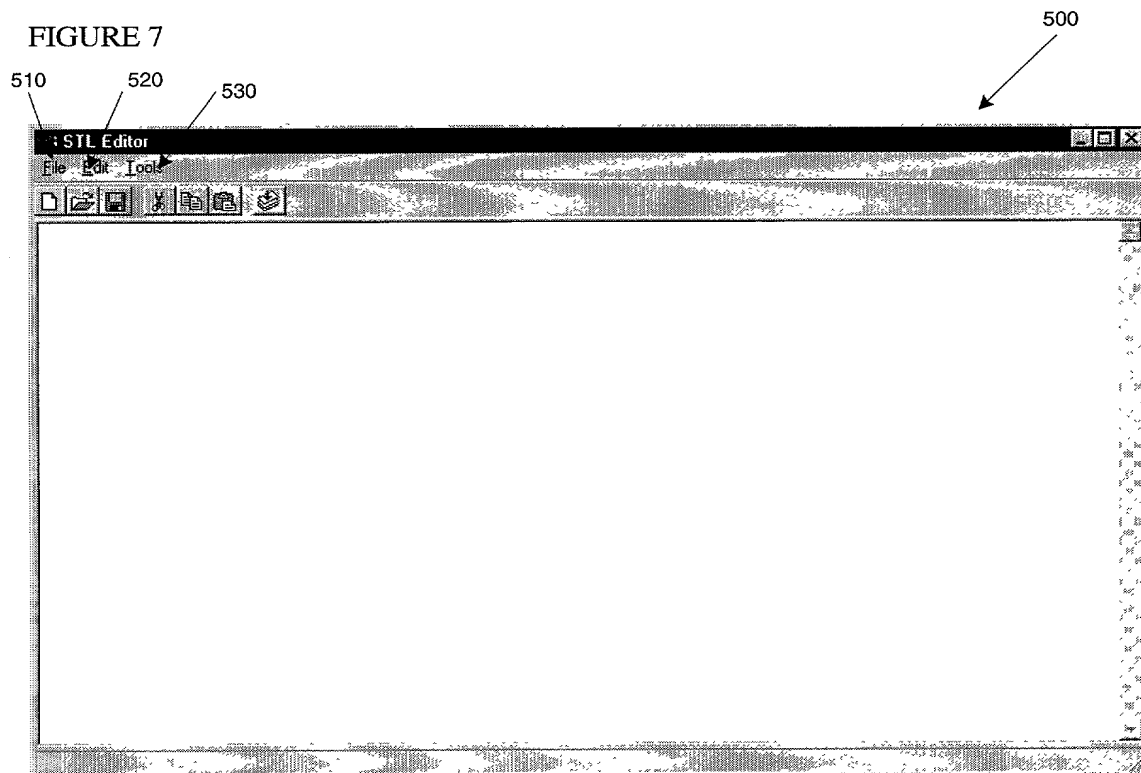


FIGURE 8A

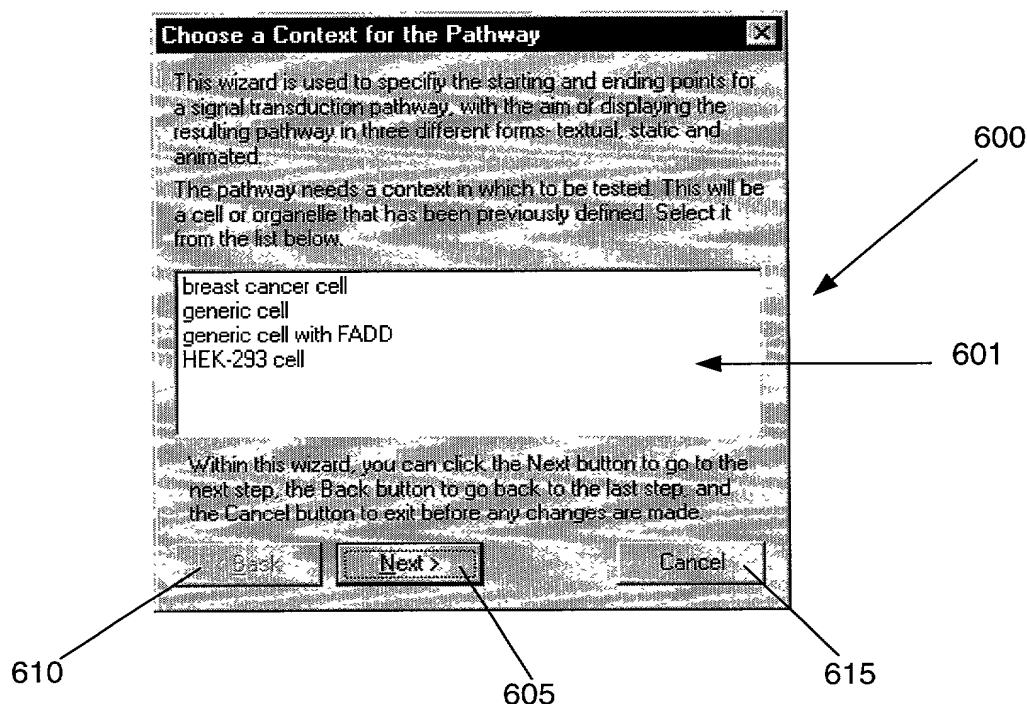


FIGURE 8B

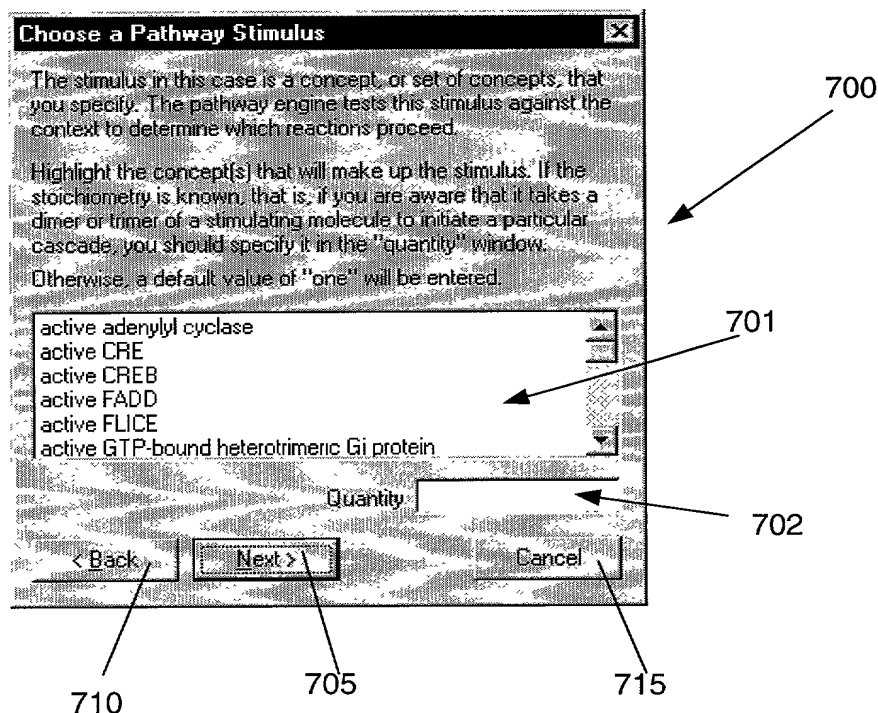


FIGURE 8C

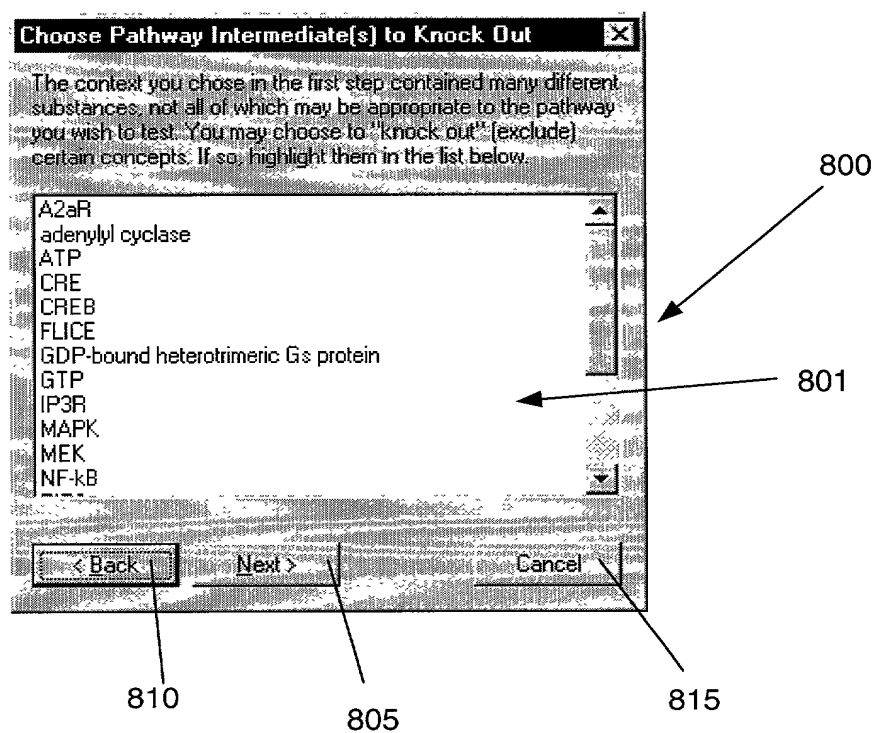


FIGURE 8D

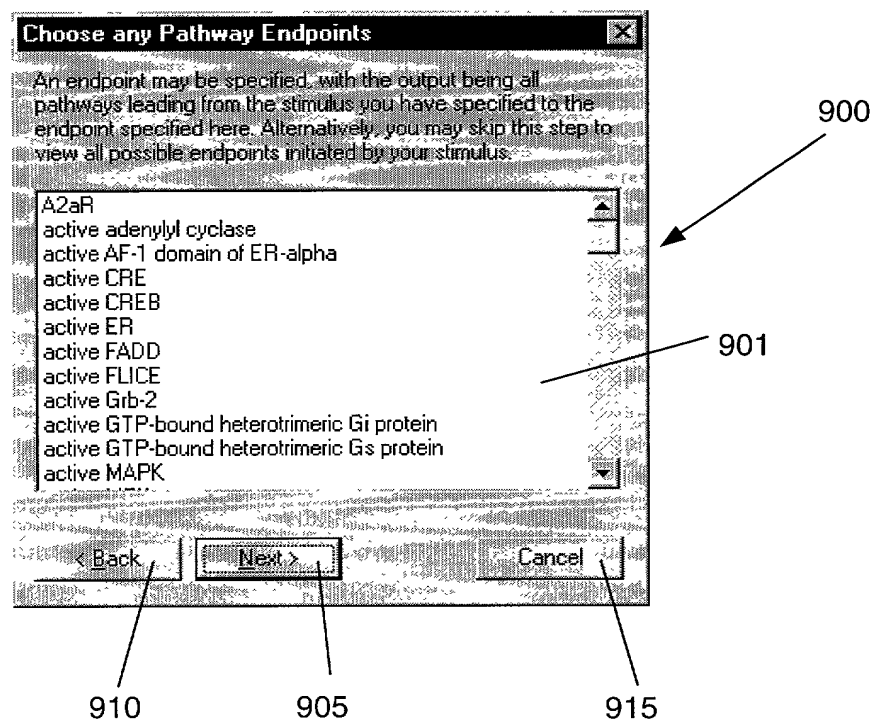


FIGURE 8E

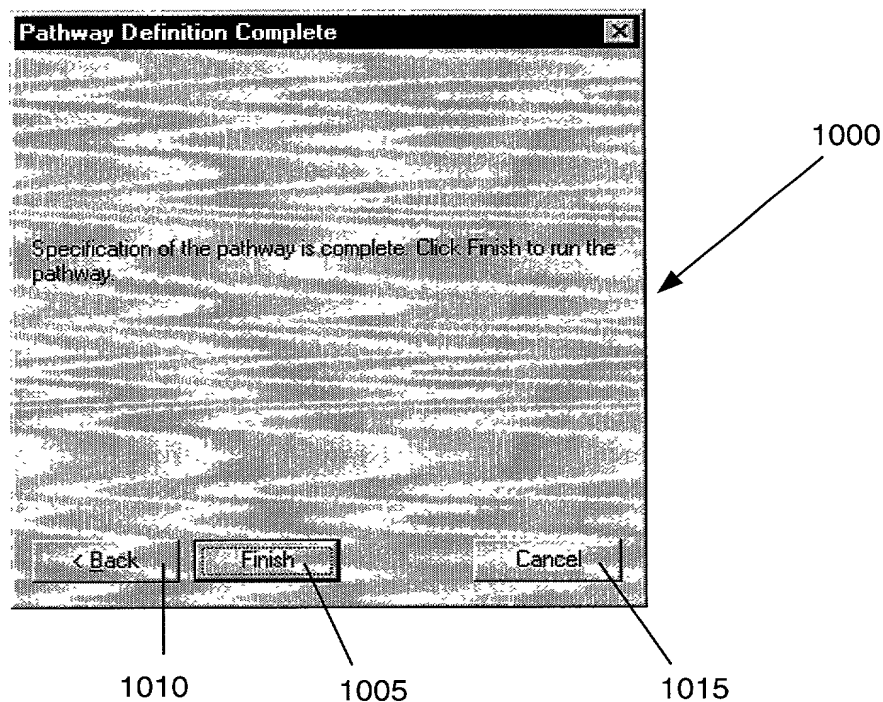


FIGURE 9

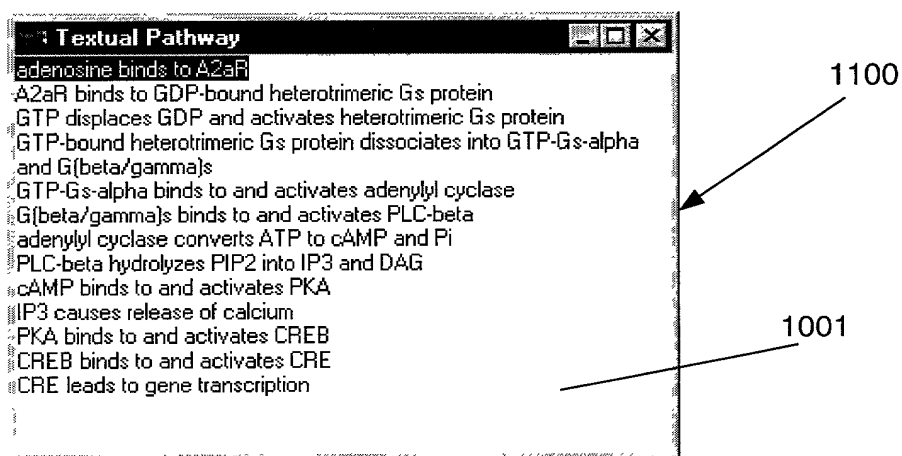


FIGURE 10A

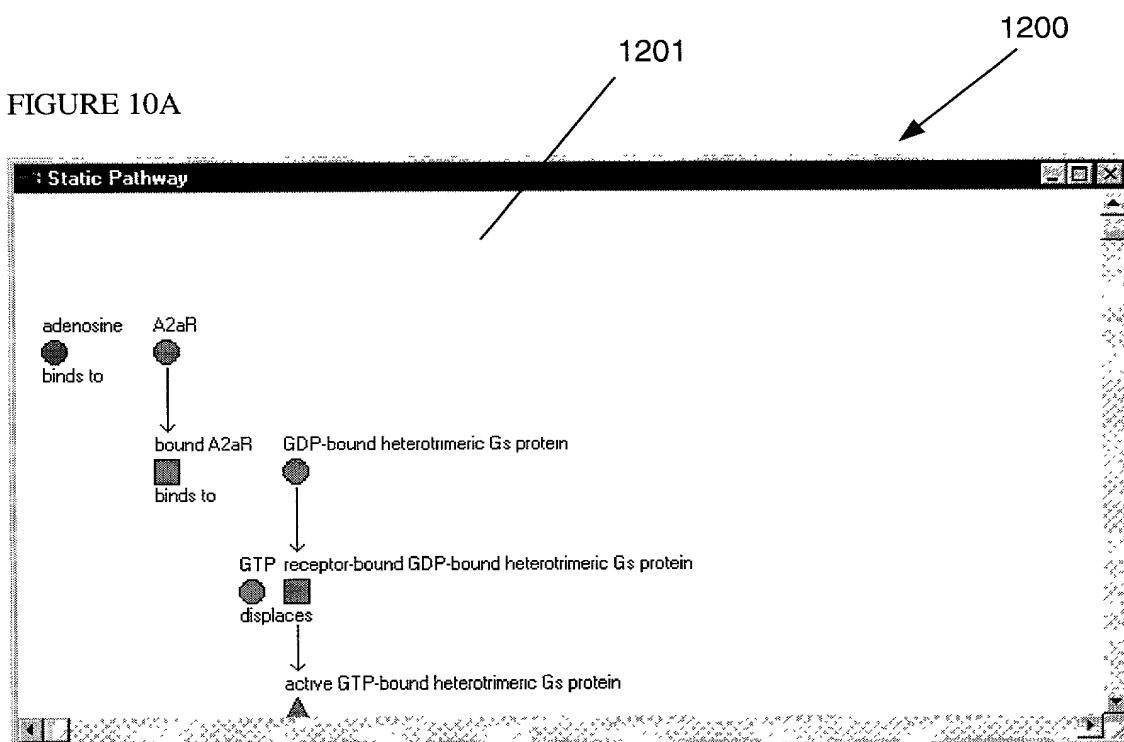


FIGURE 10B

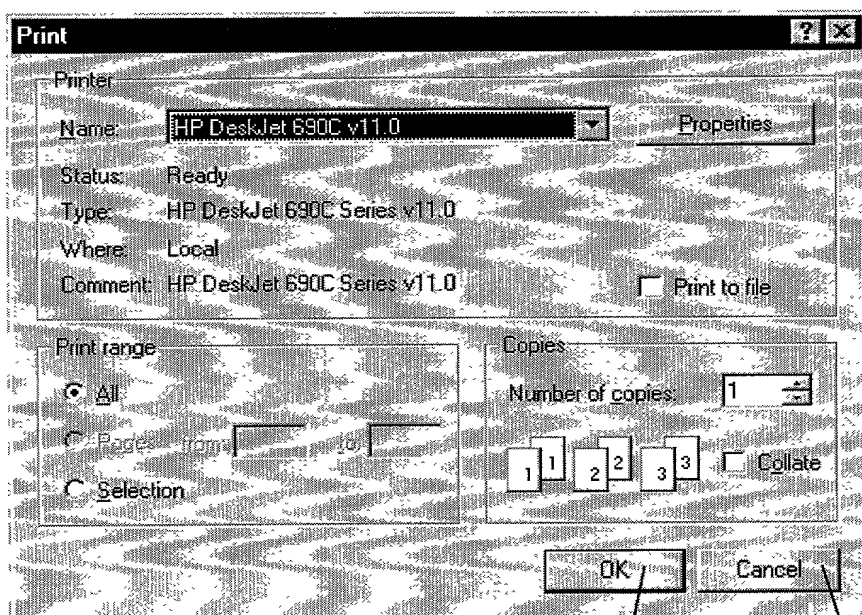


FIGURE 11

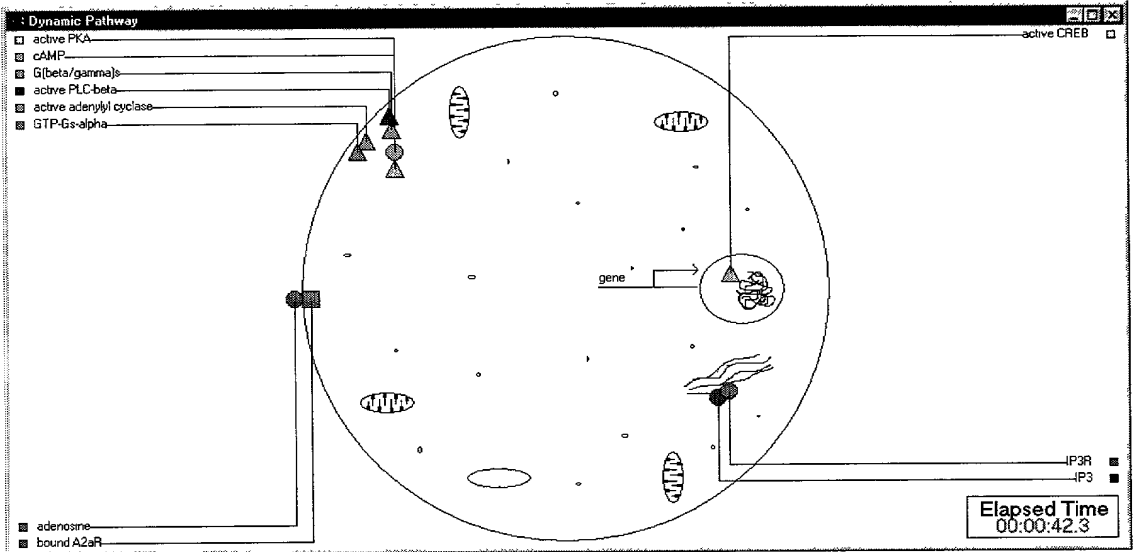
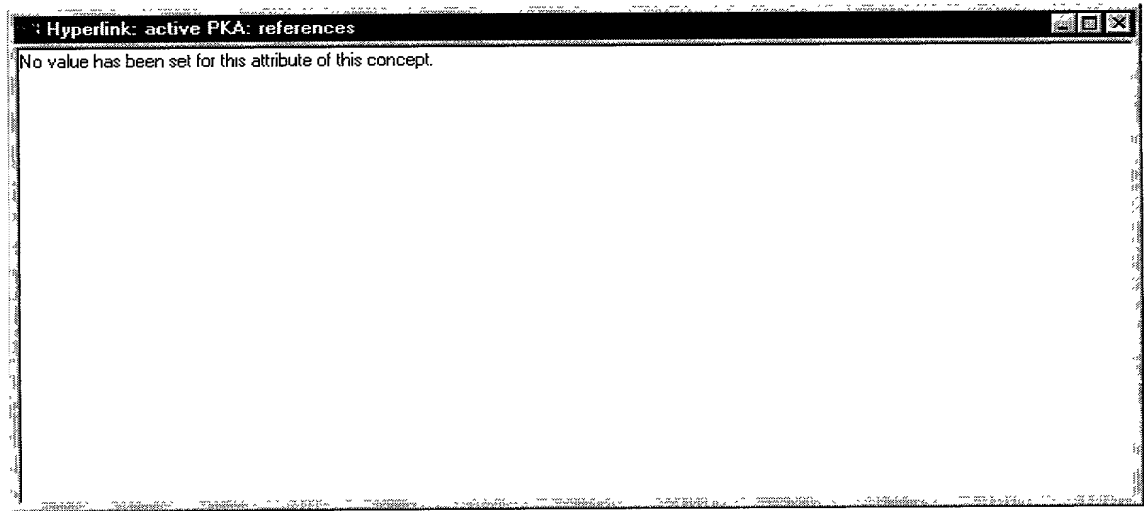


FIGURE 12



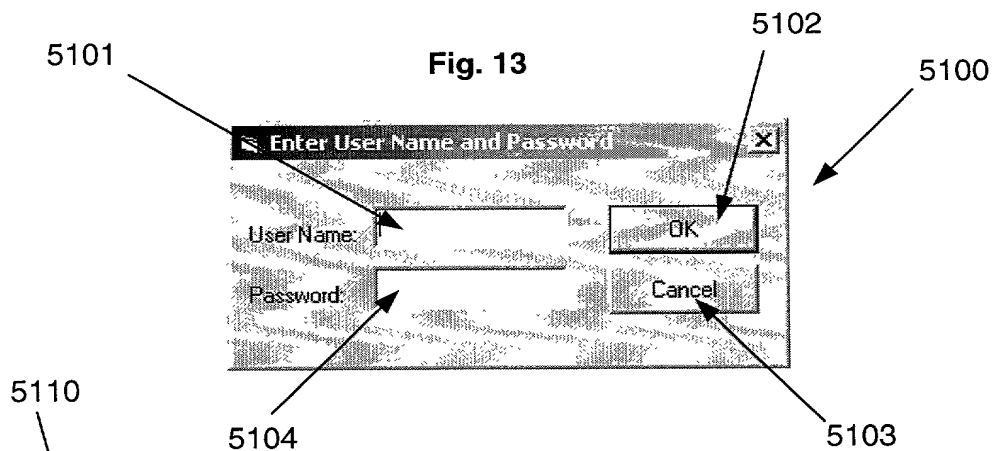


Fig. 14

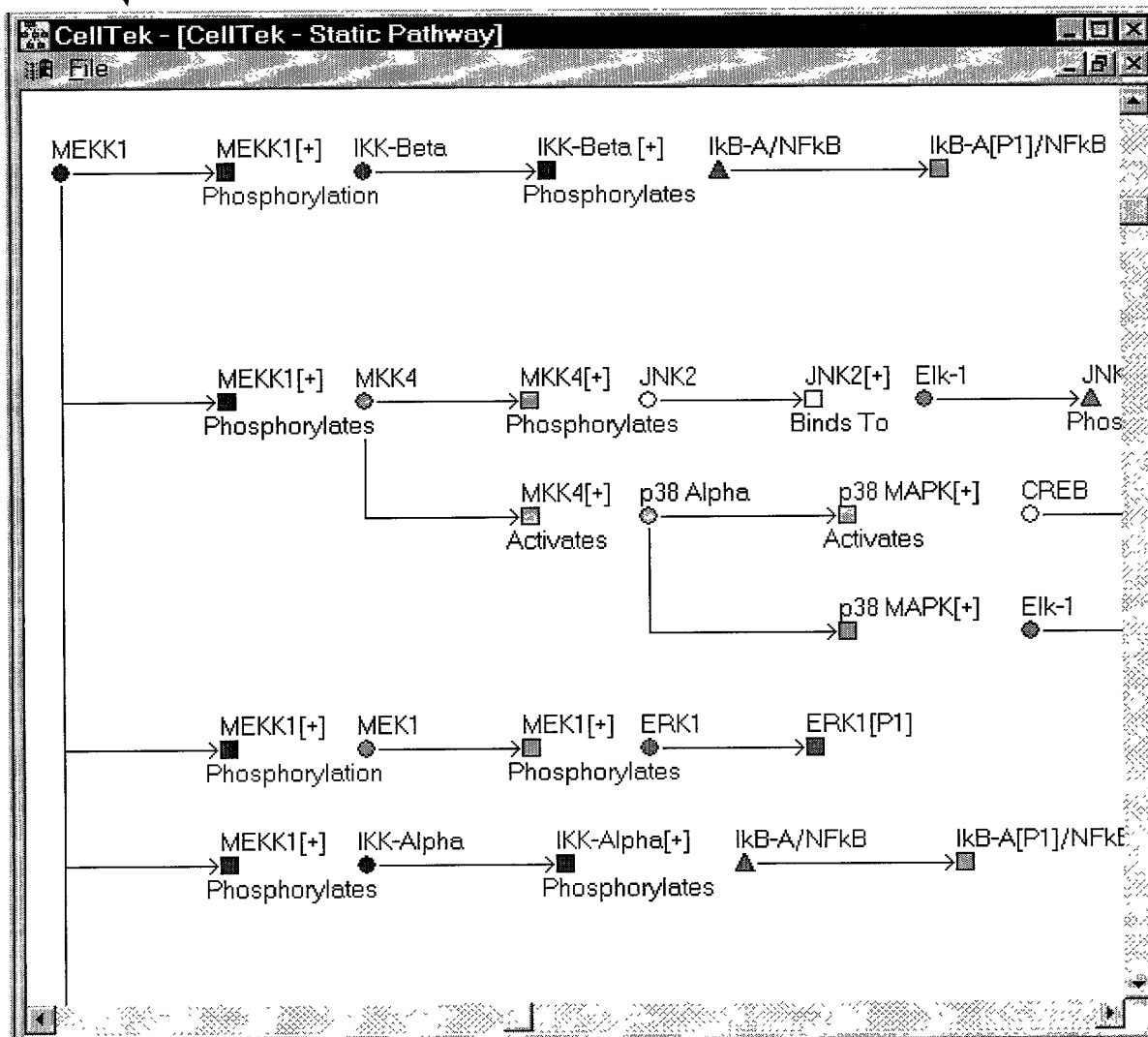


Fig. 15

5120

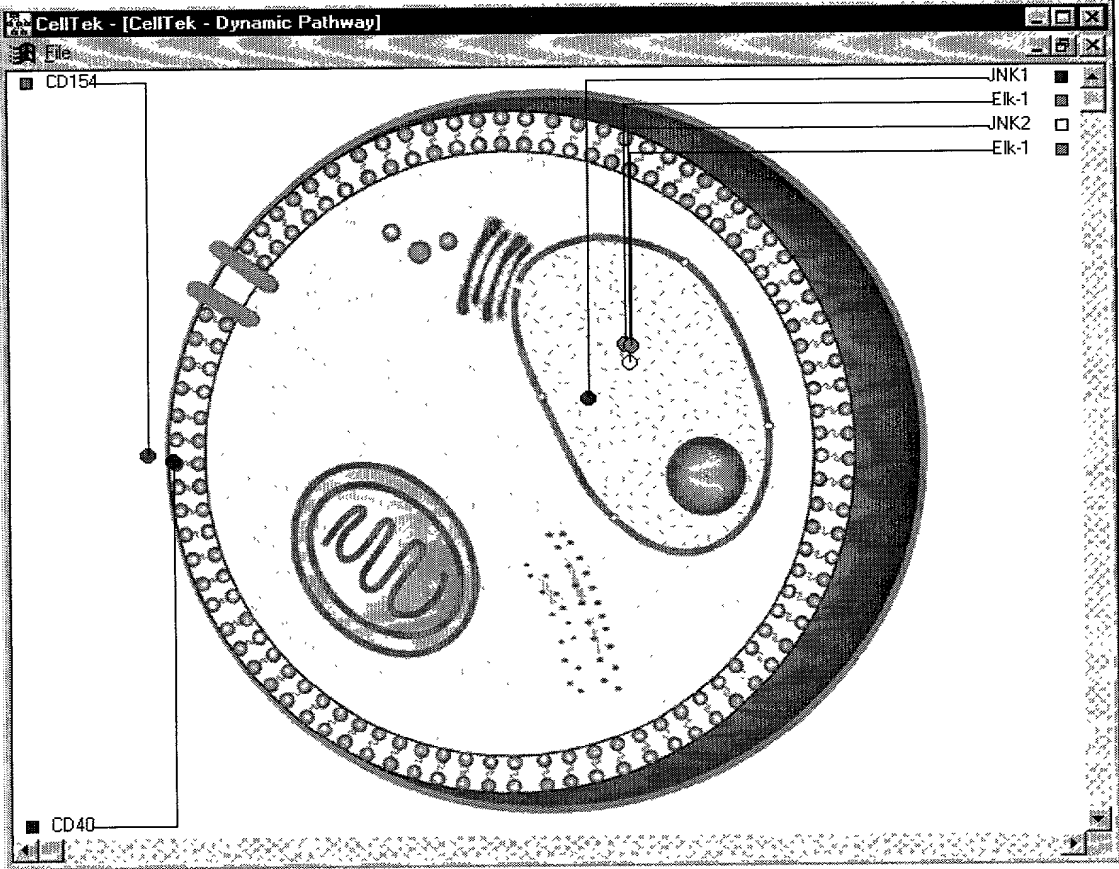
[illegible]

Fig. 16

5140

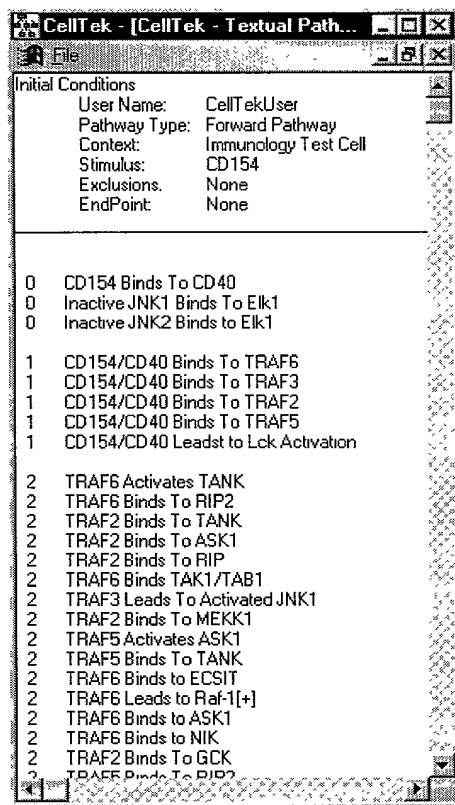
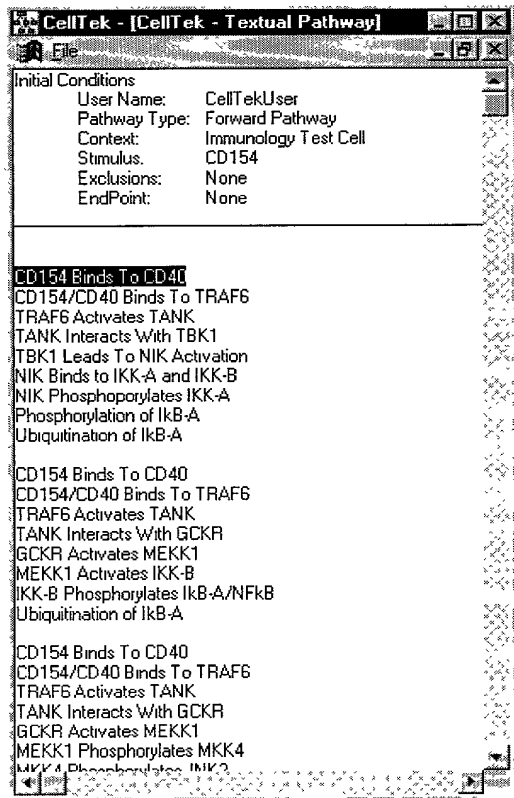


Fig. 17



5130

Fig. 18

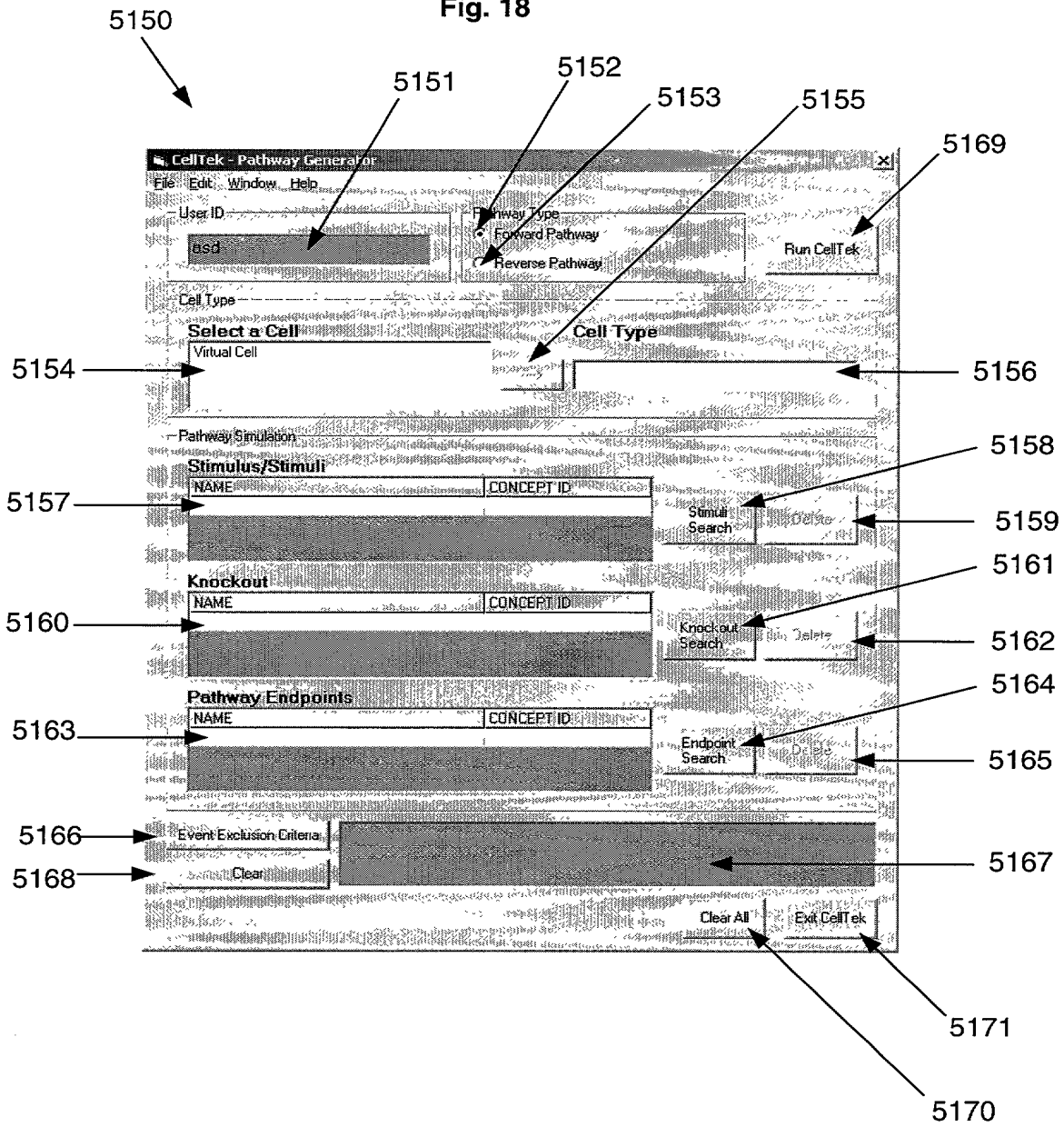


Fig. 19

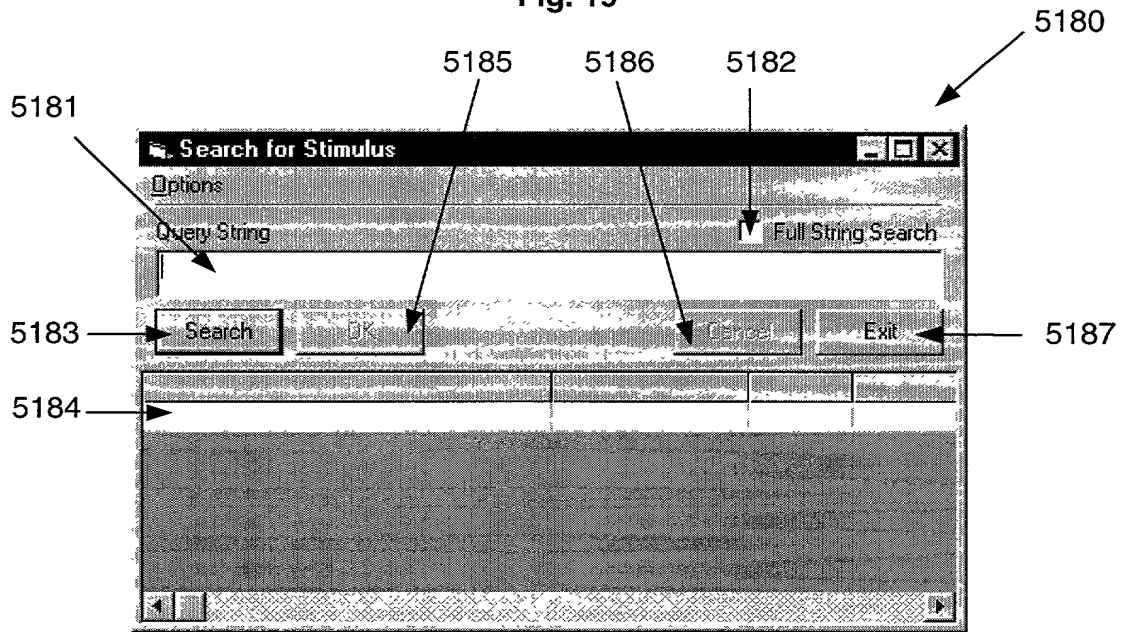


Fig. 20

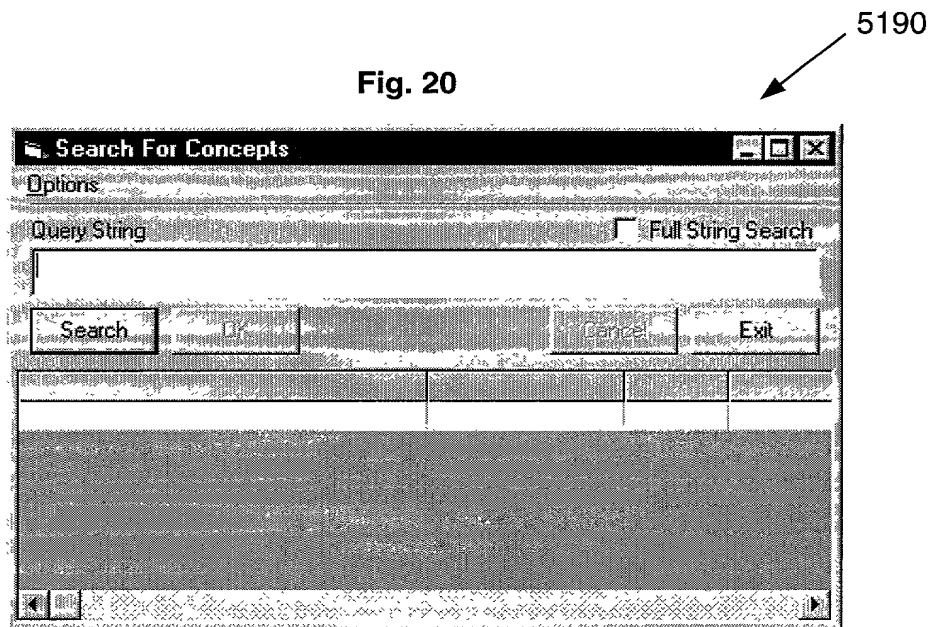
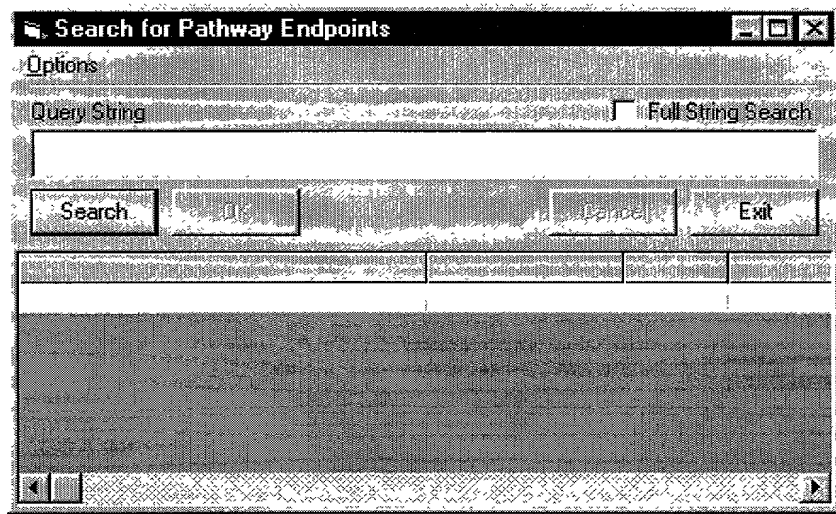


Fig. 21



5200

Fig. 22

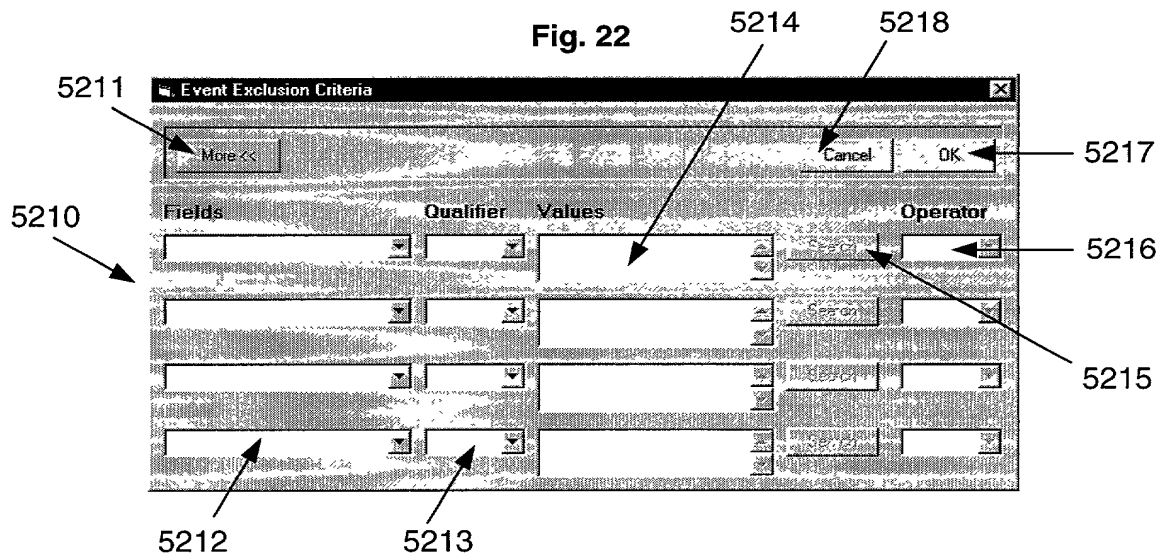


Fig. 23

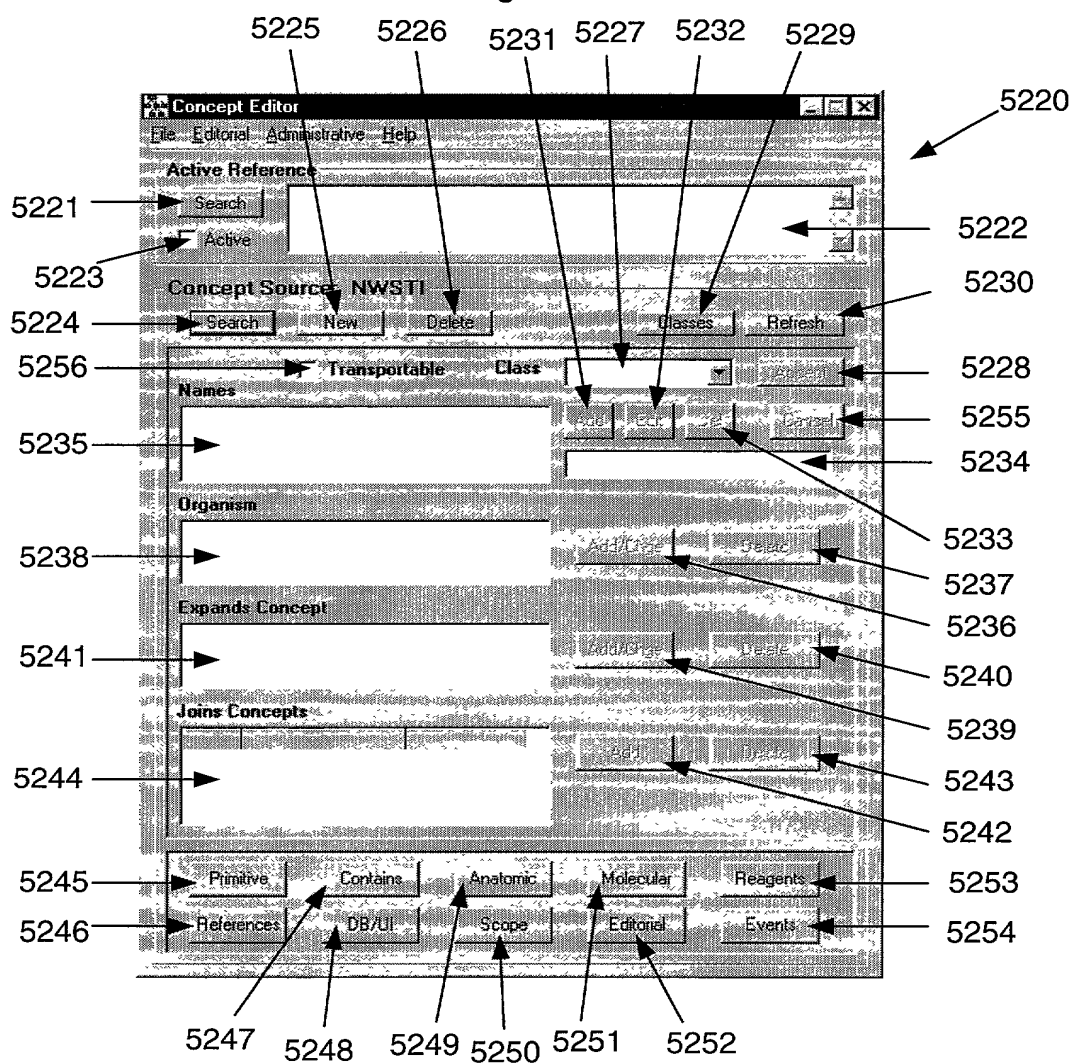


Fig. 24

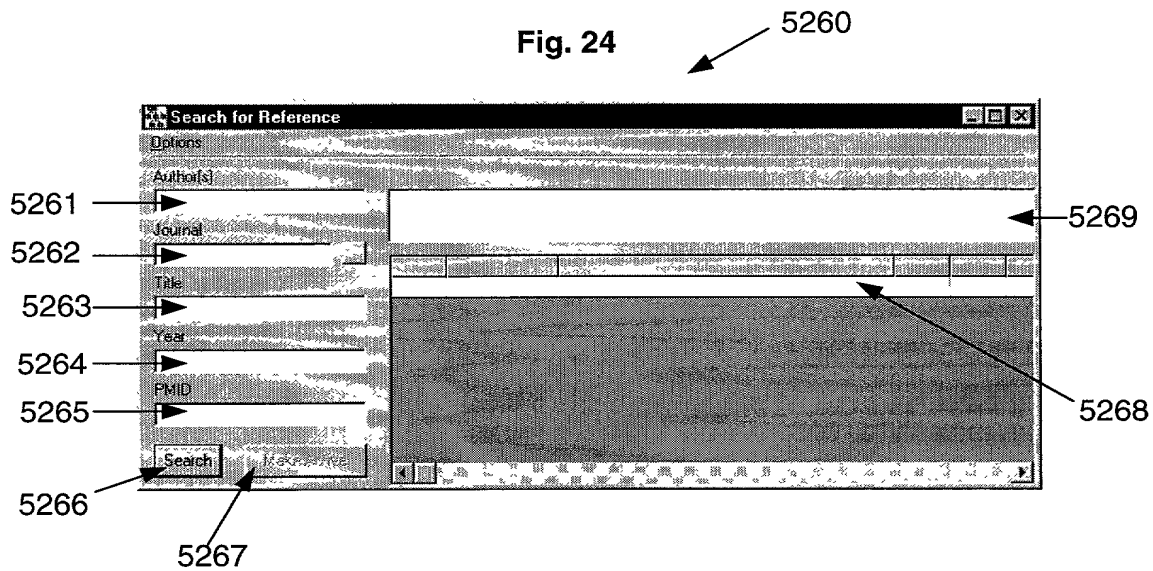


Fig. 25

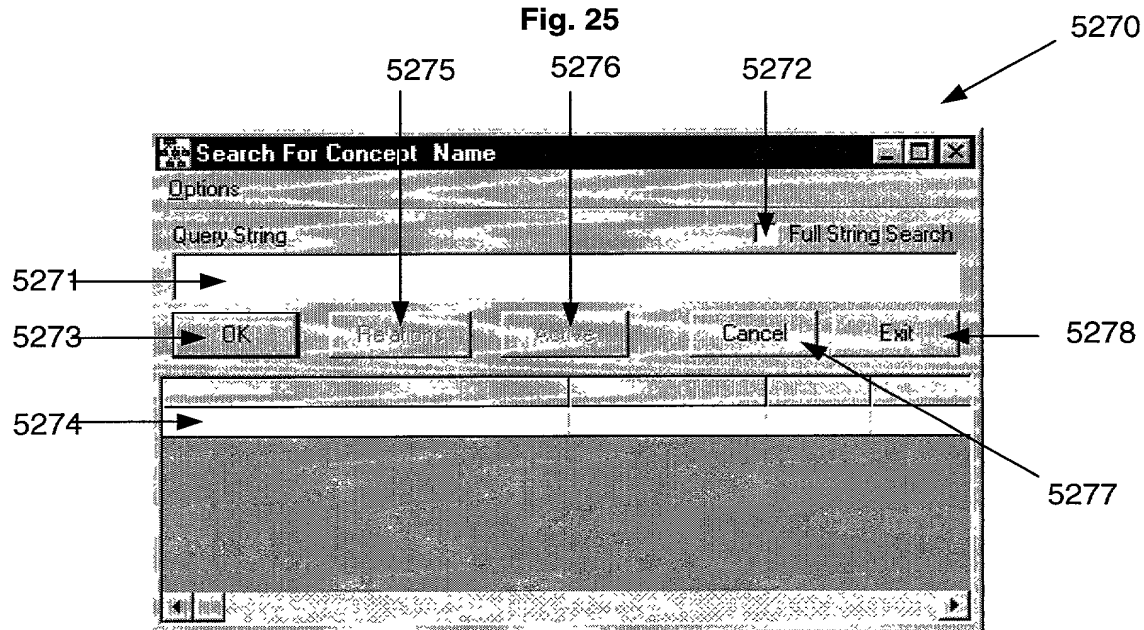


Fig. 26

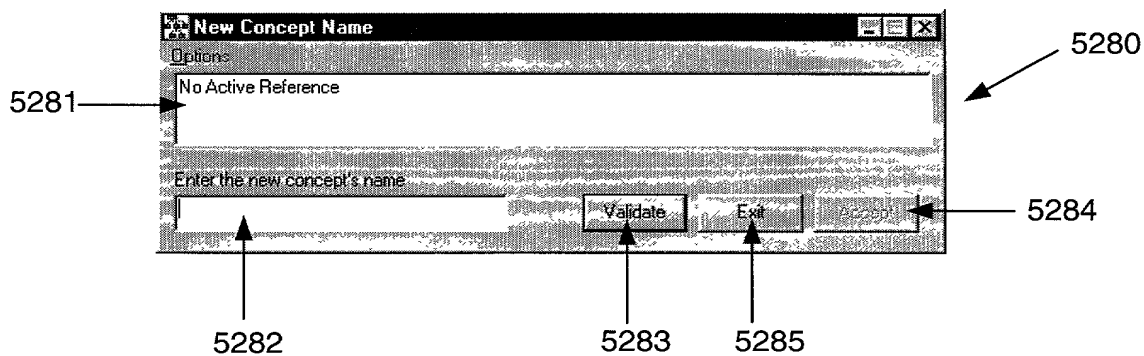


Fig. 27

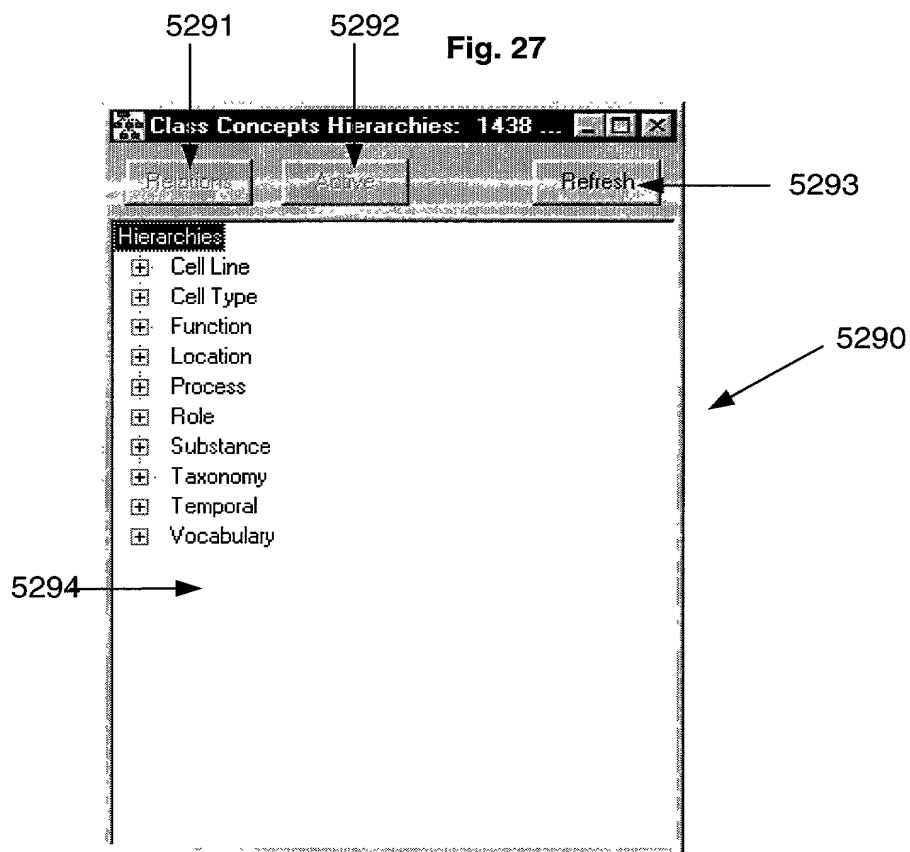


Fig. 28

Primitive Attributes: Concept "TRAF6/T6BP Complex"

Att ID	Name	Val
5	graphicshape	triangle
6	graphicsize	10
7	graphiccolor	4210688
11	stimulus	1

Add
Delete
Refresh
Exit

5300

Fig. 29

Contains - Excludes: Concept "Leukocyte"

Options: Search Refresh Exit

Contains Concepts

Excludes Concepts

Add Delete

5310

Fig. 30

Query: Concept "Leukocyte"

Options

Organism

☒ Include ☐ Exclude

Add Delete Query

Anatomic

☒ Include ☐ Exclude

Add Delete Query

☐ AND ☒ OR ☐ Dev Stage ☒ Organ ☐ Tissue ☐ Cell Type

Class

☐ Class

Add Delete Query

Combinations

☐ Organism - Class ☐ Anatomy - Class ☐ Organism - Anatomy ☒ Org - Anat - Class

Query Search Refresh To Contains Exit

5320

Fig. 31

Anatomic Attributes: Concept "Phosphatidylinositol-3-OH-Kinase Family"

No Active Reference

Refresh

ID	REF ID	MOL CELL	STAGE	ORGAN	TISSUE
387	18				

New

Delete

Active ID Reference

Developmental Stage

Cell Line

Organ

Molecules per Cell

Tissue

Expression Defined By

Cell Type

Accept

Search

Cancel

Exit

5330

Fig. 32

5340

Molecular Attributes: Concept "Phosphatidylinositol-3-OH-Kinase Family"

Member Of Gene/Protein Family

Has A Prototype Homolog

Domains: Active ID - 56

☒ Domains ☐ Motifs ☐ Post-Translational Modifications ☐ Activated By ☐ Inhibited By

ID	DOMAIN_NAME
56	Kinase Domain
57	PIK Domain

References

ID	JOURNAL	TITLE	Year	Vol	Iss
46	Annu Rev Bi	Phosphoinositide kinases.	1998	67	

Fig. 33

5350

Reagents: Concept "Phosphatidylinositol-3-OH-Kinase Family"

No Active Reference

REF ID	NAME
--------	------

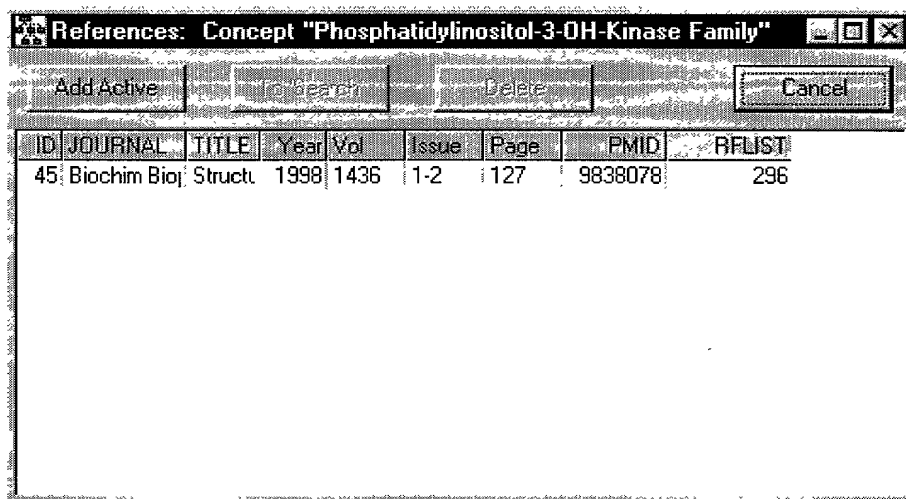
Add

Delete

Exit

Fig. 34

5360

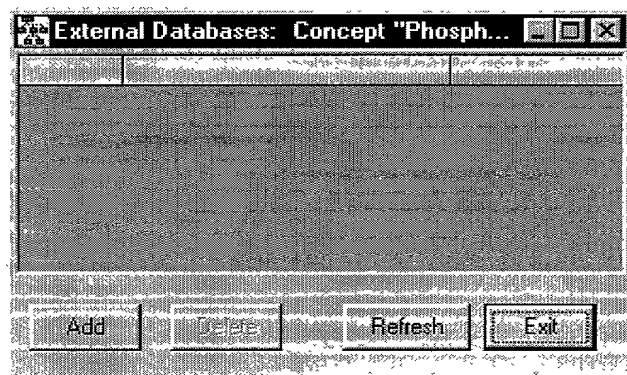


A screenshot of a software window titled "References: Concept 'Phosphatidylinositol-3-OH-Kinase Family'". The window has a menu bar with "Add Active", "Delete", and "Cancel" buttons. Below the menu bar is a table with the following data:

ID	JOURNAL	TITLE	Year	Vol	Issue	Page	PMID	RFLIST
45	Biochim Bioj	Struct	1998	1436	1-2	127	9838078	296

Fig. 35

5370



A screenshot of a software window titled "External Databases: Concept 'Phosph...'". The window has a menu bar with "Add", "Delete", "Refresh", and "Exit" buttons. The main area of the window is a large, empty rectangular box.

Fig. 36

5380

Scope Notes: Concept "Phosphatidylinositol-3-O..."

COMMENT_ID	COMMENT	ID	COMMENTTYPE_ID	COMMENTREFT
------------	---------	----	----------------	-------------

Add Edit Delete Cancel Exit

Fig. 37

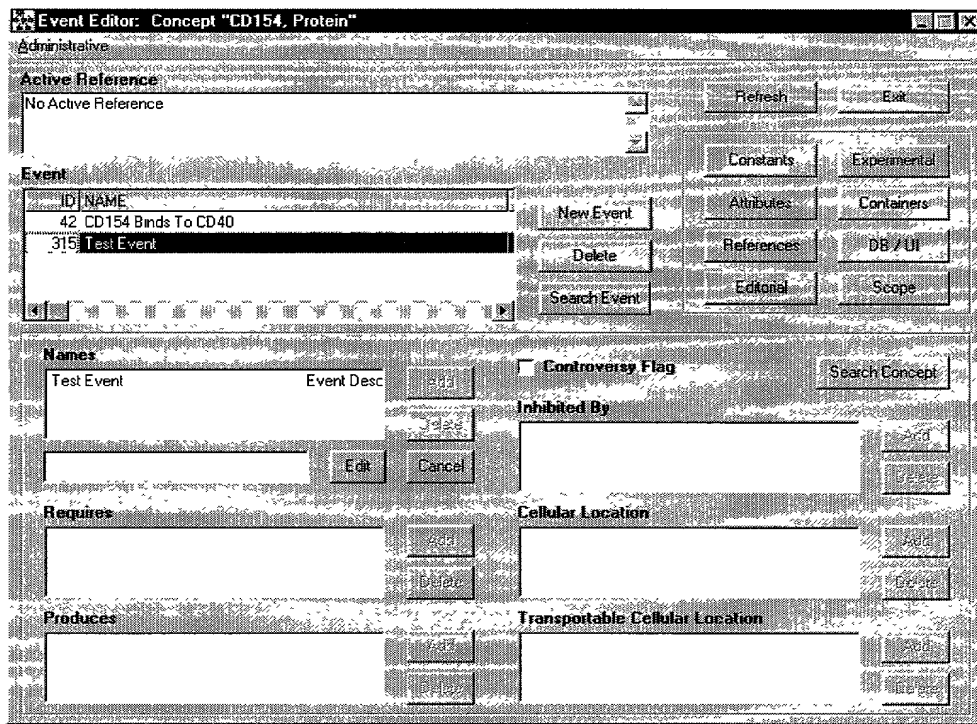
Editorial Comments: Concept "Phosphatidylinosit..."

COMMENT_ID	COMMENT	ID	COMMENTTYPE_ID	COMMENTREFT
------------	---------	----	----------------	-------------

Add Edit Delete Cancel Exit

5390

Fig. 38



Event Editor: Concept "CD154, Protein"

Administrative

Active Reference: No Active Reference [Refresh] [Exit]

Event

ID NAME: 42 CD154 Binds To CD40
 315 Test Event [New Event] [Delete] [Search Event]

Names

Test Event Event Desc [Add] [Edit] [Cancel]

Requires: [Add] [Delete] [Cancel]

Produces: [Add] [Delete] [Cancel]

Controversy Flag [Search Concept]

Inhibited By: [Add] [Delete] [Cancel]

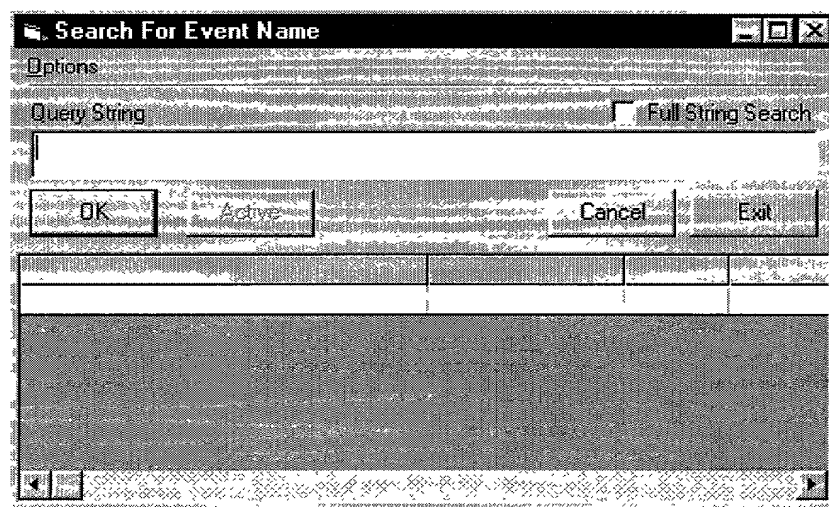
Cellular Location: [Add] [Delete] [Cancel]

Transportable Cellular Location: [Add] [Delete] [Cancel]

5405

5400

Fig. 39



Search For Event Name

Options

Query String: [Text Field] [Full String Search]

[OK] [Active] [Cancel] [Exit]

[List Box]

Fig. 40

Biochemical Constants: Event "Test Event"

Active Reference
No Active Reference

Vmax

Km

K_f (Forward Rate)

K_r (Reverse Rate)

K_{eq} (Equilibrium Constant)

K_d (Dissociation Constant)

☐ Kinetic Display

☐ Completed Constants

5410

5420

Fig. 41

Event Attributes: Event "Test Event"

Event Name
Test Event

Has Attributes

ID	Name	Val

Applies Process

ID	FROM	APPLIES	TO

Tests Attributes

ID	ATT_1	CON_1	COMPARE	ATT_2	CON_2

Modifies Attributes

ID	CONCEPT	ATTRIBUTE	OPERATOR	VALUE

Fig. 42

5430

The screenshot shows a software window titled "Experimental Conditions: Event Test Event". It contains several sections: "Active Reference" with a "No Active Reference" message and a "Refresh" button; "Experimental Conditions" with a table header (EXP_ID, REF_ID, ASSAY_ID, ASSAY_PRI, BUFFER, PERATURE, RATION_ID) and buttons for "New" and "Delete"; a "Reference" section with a text input field; "Assay Name" with a text input field, "Add/Type" and "Delete" buttons, and a "Temperature C" input field; "Sample Preparation Type" with a text input field, "Add/Type" and "Delete" buttons, and a "Sample" input field; "Assay Description: Processing/Procedure" with a text input field and "Add/Type" and "Delete" buttons; and "Assay Buffer" with a text input field, "Add/Type" and "Delete" buttons.

Fig. 43

5440

The screenshot shows a software window titled "Excluded: Event Test Event". It contains a "Search" button, a "Refresh" button, and an "Exit" button. Below these is a section labeled "Excluded From" with a large empty rectangular area. At the bottom, there are buttons for "Add", "Delete", and "Cancel".